

## SEQUENCE LISTING

## Seq ID 1

atggtaatc	ctattggtcc	aggtcctata	gacgaaacag	aacgcacacc	tcccgagat	60
ctttctgctc	aaggatgga	ggcgagtgc	gcaaataaga	gtgcggaa	gtcaaaaata	120
gcaggtgcgg	aagctaagcc	taaagaatct	aagaccgatt	ctgttagagcg	atggagc	180
ttgcgttctg	cagtgaatgc	tctcatgat	ctggcagata	agctgggtat	tgcttctat	240
aacagctcg	cttctactag	cagatctgca	gacgtggact	caacgacagc	gaccgcac	300
acgcctc	cacccacgtt	tgtatgattat	aagactcaag	cgcaaaacagc	ttacgatact	360
atctttacct	caacatca	actgacata	caggctgctt	tggtgagc	ccaggatgct	420
gtcactaata	taaaggatac	acggctact	gatgaggaaa	ccgcaatcgc	tgccggagtgg	480
gaaactaaga	atgccatgc	atgtaaagtt	ggcgcgcaaa	ttacagaatt	agcgaatata	540
gcttcggata	accaaggat	tcttgactct	ttaggtaaac	tgacttc	cgacccctta	600
caggctgctc	ttctcca	atgtcaaaac	aataaca	cagctgagct	tcttaaagag	660
atgcaagata	acccagtagt	cccaggaaa	acgcctgc	ttgtcaatc	tttagttgat	720
cagacagatg	ctacaggc	acagatagag	aaagatggaa	atgcgattag	ggatgcata	780
tttgcaggac	agaacgctag	tggagctgta	gaaaatgct	aatctaataa	cagtataagc	840
aacatagatt	cagctaa	agcaatcg	actgcta	aga	tgaa	900
aaaaaagtcc	ccgactctcc	aattcttcaa	gaagcggaa	aatggtaat	acaggctgag	960
aaagatctt	aaaatatcaa	acctgcagat	ggttctgat	ttccaaatcc	aggaactaca	1020
gttggaggct	ccaagcaaca	aggaagtagt	attggtagt	ttcgtgtt	catgctgtt	1080
gatgatgctg	aaaatgagac	cgcttccatt	ttgatgtctg	ggttctgtca	gatgattcac	1140
atgttcaata	cgaaaaatcc	tgattctcaa	gctgccaa	agagctcg	agcacaagct	1200
agagcagcga	aagccgttgg	agatgacagt	gctgctgcag	cgtggcaga	tgctcagaaa	1260
gctttagaag	cggctctagg	taaagctggg	caacaacagg	gcataactca	tgctttagga	1320
cagatcgctt	ctgctgtgt	tgtgagcga	ggagttc	ccgctgc	aagtttata	1380
gggtcatctg	taaaacagct	ttacaagacc	tcaaaatcta	caggttctga	ttataaaaaca	1440
cagatatcg	caggttatga	tgcttacaaa	tccatcaatg	atgcctatgg	tagggcacga	1500
aatgatgca	ctcggtatgt	gataaaacaat	gtaagtaccc	ccgctctc	acgatcgtt	1560
cctagagcac	gaacagaagc	tgcaggacca	gaaaaaacag	atcaagcc	cgctagggt	1620
atttctggca	atagcagaac	tcttggagat	gtctatagtc	aagtttccgc	actacaatct	1680
gtaatgcaga	tcatccagtc	gaatcctcaa	gcaataatg	aggagatcg	acaaaagctt	1740
acatcggcag	tgacaaagcc	tccacagttt	ggctatc	atgtcaact	ttctaa	1800
tctacacaga	agttcatagc	taaatttagaa	agtttgg	ctgaaggatc	taggacagca	1860
gctgaaataa	aagcacttcc	cttggaaacg	aactcctt	ttattcagca	ggtgctgg	1920
aatatcggt	ctctatattc	tggtatctc	caataa			1956

## Seq ID 2

atgaaaaaaac	tcttaaagtc	ggcgttatta	tccgcgc	ttgtgtt	tgtcggctcc	60
ttacaaggct	tgccctgtt	gaacccttct	gatcca	gat	tattaattga	120
tgggaagggt	ctgcaggaga	tccttgc	catttgc	cttgc	ttgttgc	180
ttacgtgctg	gattttacgg	agactatgtt	ttcgac	cgat	tttttttgc	240
aaaacatttt	ctatgggagc	caagcctact	ggatcc	ctgc	tttttttgc	300
gtagatagac	ctaacc	ctacaataag	catttac	atgc	tttttttgc	360
gcaggcttca	ttgcctt	aaaatggat	cgctt	tttttgc	tttttttgc	420
tctaattgtt	acatttgc	aaactctaca	gcgtt	tttttgc	tttttttgc	480
aaaggtacta	ctgtt	aaatgaacta	ccaaac	tttttgc	tttttttgc	540
gaactttaca	cagacac	cttctt	tttttgc	tttttgc	tttttttgc	600
tgcgttgt	caactt	tttttgc	tttttgc	tttttgc	tttttttgc	660
gaacttaatg	tgatctgtt	tttttgc	tttttgc	tttttgc	tttttttgc	720
ggcggttgc	tccc	tttttgc	tttttgc	tttttgc	tttttttgc	780
cgaccatca	attat	catgtt	tttttgc	tttttgc	tttttttgc	840
ttatgtccat	acatttgc	tttttgc	tttttgc	tttttgc	tttttttgc	900
attgtctc	caaaaactacc	tacagctt	tttttgc	tttttgc	tttttttgc	960
ctagggaaatg	ccacagc	tttttgc	tttttgc	tttttgc	tttttttgc	1020
tcctgtcaga	tcaaca	tttttgc	tttttgc	tttttgc	tttttttgc	1080
ttatgttgc	ctgataa	tttttgc	tttttgc	tttttgc	tttttttgc	1140
gtcacgtat	ctgg	tttttgc	tttttgc	tttttgc	tttttttgc	1170

## Seq ID 3

atgtctgtt	atccatcagg	aaattccaa	aacgatct	ggattac	gggg	agctcat	60
cagoatcccg	atgtt	aaaga	atccgg	ttt	ttt	ttt	120
actgcctc	gaggac	ccca	agggtt	ttt	ttt	ttt	180

tttagtcgga tgagcttctt cagatcgaaa gctccaagag gtagccaaaca accctctgtc	240
ccatctgcag atactgtacg tagcccggtt ccggggagggg atgctcgcc taccgaggga	300
gctggtagga acttaattaa aaaagggtac caaccaggaa tgaaagtac tatcccacag	360
gttccctggag gaggggccca acgttcatca ggtgcacga cactaaagcc tacgcgtccg	420
gcaccccccac ctccctaaaac gggtggaact aatgcaaaac gtccggcaac gcacgggaag	480
gttccagcac cccagccctcc taaaacaggt gggaccaatg ctaagcgcc agcaacgcat	540
gggaaaggtc cagcacctca acctccctaa ggcattttga aacagcctgg gcagtctggg	600
acttcaggaa agaagcgtgt cagctggct gacgaagatt aa	642

## Seq ID 4

atgggaatca atccctcgaaa taatagatca ccagatgtatg tatgggttag aggagctcaa	60
ggcgatagct ccagtaccca aggtacaggaa gctacaaaact caaatcttg tgctcacaac	120
gtactacat caacccata gcccgaaggtt gcttctaaag caaaggcgtt atggcagacg	180
gtaaaggagt tctttttagg gaagaatca cccgattttt ctcagggtgc ttccggaccc	240
gcaatgcaaa gtccttcagg acctacaata cggcctacgc gtccggcacc tccacccct	300
acaacgggtt gggctaattgc gaaacgtccc gcaacgcgtg ggaaagggtcg agcacctcaa	360
cctcctacgg cggggcttc ttcaggatca gagcaaccta ctgcctatgag ttctgaagtc	420
gtaaacttg tgagtatcaattt aaaaatgtca gtcctatgtc atgcggagtc taaaaagta	480
ctaaaaagg tatctcaaga gtcacaaaaca aagtggacgg attggggaaa taataggggt	540
ccagactatc ttttgcattt ttatcggtc attgcgtcgat ctttgcagca aacatacaca	600
gaacaatcta tgcttatcga aggacttca tctacaggac cagtccgcg agcagtgact	660
gtagctaagg atgctgtac tcaagacagt agaggcgcgaa ttaagaattt agaaaatcct	720
aagccaggta atgatcctga tgggttactc atgcaagtgg ttataagctt aggtatcgaa	780
ggacctacat tagacccagg agaatctatc caaaactttt tagaaacttag ggtttcggat	840
ttccgggtggag atgatagcga catagattt acaagtata tagctcgat agggtcagct	900
ttagatcggtt tacgcgaaaaa tcacatcaat gagatgccta gaatatggat agcattagca	960
cgagaactcg gtgcggctgt acactctcat gctacttccg tccgaatcgc aaatgcagga	1020
aagaatcaca ctcgtgacgt tggcgaatg gccaatgatc cgagtagact acttcaaggt	1080
atgaaagtgt ttcgggtcg agcttggcg aatacaatga cagttttat cggggatctt	1140
tttgaataa	1149

## Seq ID 5

atggaaaacgt tggcactt cgtatccaaa gccttttat cgatagtagg actgtgttc	60
ggagtttgc ttgctttgt cgttatattc gcactcatag ctccctctt agggaaatggg	120
gatgtacatc tggtagctt gcgtgacgccc caaggagaag taaaagatct agggaaaaca	180
gccccccatta ttgctttat cggaaatgaaa gatgtatgg ctcttcacaa aaatacgcc	240
aaaacgattt agaatattttt agaaggattt gagaaggctc ctcttaaaga tcgtgtcaaa	300
ggtattgtca ttgatatgg tggccagga ggcgaggtct ttgaaataga tagaatttac	360
tctatgttc gtttttggaa agaacgtaaag ggattcccta ttatattttt tggatgggt	420
cttgggtctt cggggaggctt ttatgtatcc tgcgtctcaa cttttttttt tgccacctcc	480
ttaatcgct acggaggatgtt aagtgtatctg ctgacagctg gaaaagataa ggctccaaatg	540
aatccctata caccgtggac ttctcatgtt agagaagaac ggcaagcgac tcttgatttt	600
ctctacggac aatttggta tatagttaca cttttttttt ctctgttttac taaagagaag	660
tttagttcaca ctctcgaggc acgtatttttt tctccagaga aggccaaaca agaaggctat	720
attgtgttgg taggcgcacaa taaaagaaacaa gtccttcacaa acatagttgc tgggttgc	780
attgaagata actatagatg gatggctt ggtggatg gttgggtggaa ggggggtggct	840
tcagctgcag cttcaagtcc attagttact ggcatttgcgaa aacacgatat tctgccttta	900
tccatgacg ctgcatacat acctccctac ttggcactgt ag	960
	1002

## Seq ID 6

atgagacctc atcgtaaaca cgtatcatct aaaagcttag cttaaagca atctgcata	60
actcatgttag agatcacaac aaaagctttt cgtctctcta tgcctctaaa acagctgatc	120
ctagagaaaaa gcgaccaccc cccccctatg gaaacaatcc gtgtgggtct aacctctcat	180
aaagataagc taggcacca ggtgcattttt gtagcttctc atgcacaaaga aatccctcaa	240
actaagggttca ataacgcggaa cccatacact gcaatgtatca atgtttttaa gaaaatccgc	300
accatggcaataaagcactc caataaacgtt aaagacagggaa cttttttttt tcttaggttt	360
gcagaaaaag aagaacgtat cgtatccatca gaaacaacaa aagatgcctt tagcaacgag	420
tggcttcctg tgcagggtctt cgtatccctt gattctctaa aactctttttt gttatgttccc	480
gcatcagcga aaaagaagat ctccaaagaaa aagatgatc ttcgtatgtt atctcaagac	540
gaggctatcc gccagctaga gtcgtccgcgaa aaaaacttcc tgcattttttt gaaacgagca	600
gagcataaaa tccaaatgcattt ttataaaaaa catgacggca actatgttcc tattttttttt	660
tccctcaagc caggattctgtt catctgtt	687

## Seq ID 7

atggcagctc	cstatcaacca	accatcgaca	acgactcaga	taactcaaac	tgggcagact	60
acaacgacaa	caacgttagg	atcattagga	gagcattctg	ttacaacaac	aggatctggg	120
gcagcagcac	aaacatctca	gacagtaact	ctaattgcag	atcacgaaat	gcaagaaatt	180
gcaagtcaag	atggatccgc	ggtaaagctt	tctgctgagc	actcttttc	taccctccc	240
ccagagactg	gaagtgttg	agctacagca	caatccgtc	aatctgcggg	gctatttca	300
ttatcaggtc	gtacacaaaag	aagagatcg	gagatttctt	ccttctctga	cggcagttcg	360
atatctagaa	ctagctaaa	cgcatacttct	ggagaaacaa	gcagagctga	aagtagtct	420
gatctaggcg	acttggatag	cttatcagga	agcgagcgcg	ctgaaggagc	cgaaggacct	480
gaaggacctg	gaggcttacc	tggaaagtagc	attccacatt	atgatctac	cgataaagcg	540
tctatcttgc	acttcttgc	aaatcctgca	gttcagcaga	aatatgcagac	caaaggaggc	600
cacttgc	atgttagatga	agccagaagt	agtttctt	ttgtccgca	tggtaactgg	660
tcaactgctg	agtctataaa	agtttctaa	gcaaaaaacca	aagaaaatat	tactaagcct	720
gcccacttag	aaatgtcata	cgtctaaattt	tgtgtggat	atgaaaaccat	ccactcggat	780
tgacggggac	gcgtaaaacc	tacaatggaa	gagcgtctgg	gagccacagg	aaattacaat	840
catctgtatgc	tcagcatgaa	attnaaaact	gctgttagtct	acggtccttg	aatgtctaa	900
gaatcttagt	gtggatatac	accctctgca	tggcgtctgt	gagccaaaagt	agaaacaggt	960
ccgattttgg	atgatgttg	gggcttggaa	ggcatttaat	ggaaaacgac	cccagctcca	1020
gacttctcct	ttataaaatga	aactccagg	gggggggctc	actcgacgtc	tcatacaggt	1080
cctggcactc	cagtagggc	tactgtgg	cctaattgtga	atgtcaactt	gggaggcatt	1140
aagggttgc	tgggtggcat	caatttaggt	ggaattacaa	cgaatgtcac	tacagaagaa	1200
gggtggggaa	ccaacataac	atctacgaa	tccacatcta	ctgatgataa	agtctcaata	1260
acatctacag	gatctcaaag	tacgatcgaa	gaagacacta	tacaatttga	cgatcttgc	1320
cagggagagg	atgataacgc	aattccggc	acaaacacac	cttctctcc	aggtcttccg	1380
ccaaatctaa	gcagttctcg	cttgcgtact	atttgcatt	cttgcatttga	ccaagtctta	1440
cagaatgtcc	gacaacatct	gaatacggct	tatgatcga	atggtattt	agtctcagat	1500
cttcaatcagg	atttaggca	ggttagtaaaa	aacagtggaa	acggagtggaa	cttccctact	1560
gtgattcttc	ctaaaaactac	tggcgatata	gatccatcc	gtcaagcac	cggaggagtc	1620
actgaaggcg	gcggcataat	cgtaatatt	atccaaagga	atacacaatc	tacggggca	1680
agtaaggag	caacacatc	acctcaacat	actatacgaa	agatagtgg	ttccctgaga	1740
aaagcaaatg	taagttccag	ctctgtgcta	ccacaaccac	aagtagctac	gacgatcacc	1800
cctcaagcga	gaacggccag	tacatctaca	acgagcatag	gaaccgggac	agaaagcaca	1860
tctacaacaa	gtacgggaac	gggaacagga	agtgtctca	cacaaagtac	tggcgttaggg	1920
acaccaacta	cgacgactcg	atctacagga	acttcggcga	caaccacaa	atcatcagct	1980
tcgacacaaa	caccccaacg	gcctcttccc	tctgggacca	ggcatgttgc	tacaatctcc	2040
ttagtgcgta	atgctgcagg	aaggtctatt	gtattacaac	aagggggtcg	atctcaaagc	2100
ttcccgatcc	ctccctcagg	gacttggaa	cagaatatgg	gggcacaatt	gtgggctgca	2160
gcaagtcaag	ttgcttccac	tttaggcccag	gtcgtgaatc	aagcagctac	agcaggttct	2220
caaccctct	ctcgtagatc	ttcccccaaca	agtccacgaa	gaaaatag		2268

## Seq ID 8

atgaaaacgt	ctcaactctt	ttataagact	tcaaaaaatg	caaataaaag	cgctgtgtg	60
ctctcaaacg	agctcctaga	aaaggcagga	tacctattt	aagaatgtaa	aggagtctat	120
acctatacac	ccctgttatg	gcgcgtggc	tccaaatgt	tgaacatcat	tagagaggaa	180
cttaatgcga	ttggaggtca	agaacttctt	ctcccacttc	tccacaatgc	tgaactttgg	240
caacatacag	ggagatggga	ggcattttact	tcggaaggac	tgctctacac	tctcaaagac	300
cgcgaaggaa	aatctcattt	cctagctctt	acacatgtt	aggcatctgt	ctcttttgtt	360
gcacaatggc	tctcctcaaa	aagacaactt	cctctccacc	tttaccat	tgctacaaaa	420
ttcccgagacg	agattcggcc	tgcattcggt	ctcattcgct	ctcgagagct	ccttattggaa	480
gacagctata	ccttctcaga	ctctcccgaa	caaataatgt	agcaatatgt	aaaactccgc	540
tctgcgtata	gtaaagatctt	tgatcgctc	ggtcttgct	atgtcatcg	tacagctgt	600
ggaggggaaaa	tggcCAAAGG	aaagtcttag	gaatttcagg	tcctttgtc	tctaggcggag	660
gacacgatct	gcgtcagcg	ttccatgg	gctaataattt	aggctgtgt	ctccatttct	720
ccacagcatg	cctacgatcg	cgagtttctt	cccgtcgaag	aagtggccac	ccctgggatt	780
acaacaatag	aagctctagc	aaacttcttc	tctatccct	tatataaaaa	ttttaaaaacc	840
cttgcgtaa	aactctctca	cttcaatgtaa	gaaaaattca	ttgccattgg	aatgagagga	900
gatccggcaag	tcaaccttagt	gaaggtcgct	tccaaactgt	atgccatgt	tattgcctta	960
gcttcgtat	aagaaatctca	acgcgttctt	ggcacaagaaa	aaggattcat	cggtccccctt	1020
aactgtccca	tagacttttt	cgcagacgaa	acaacgtccc	caatgacgaa	ctttgtttgt	1080
gcgggcaatg	ctaaagataa	gcactacgt	aatgtaaact	gggatcgcga	cctccccc	1140
ccccaaatacg	gtgactttct	actcgctgaa	gagggagaca	catgtcctga	aaatcctggc	1200
catccttacc	gcatttatca	aggcatagaa	gttgcata	ttttcaatct	cgggacacgc	1260
tataaccgata	gttttgaggt	aaacttccaa	gatgaacacag	ggcaaaaccca	gcagtgtgg	1320
atggggacct	acggcatttgg	agtccggaa	acattagccg	tttgcgtaga	acagcttgc	1380

gacgaccgtg	gtatttttg	gccaaaagca	ctcgccccc	tcttatcac	tatgccttt	1440
aacggaggag	acaactgtatc	tcaagagctt	gcggaaacta	tttacatga	gctacaaagt	1500
caaggctatg	agcccccttc	tgtatgtcg	gatgaaagac	tcggatttaa	acttaaagac	1560
atgtaccctt	tcggcattcc	ttataagctt	attttaggaa	agtcctacca	atcttcggga	1620
atattcgaaa	ttgaatcccg	atctggagaa	aagtatacag	tctcccgga	ggcctccct	1680
acttggtgtc	agaatcactt	agcctag				1707

## Seq ID 9

atggcatcag	aatcgagg	atcttagtgg	ttagaaaaga	ttccaccta	agataatggg	60
gatagaagtc	gatcgccctc	tcctaaggga	gaactggca	gccacgagat	ttccctgcct	120
cctcaagaac	atggagagga	aggagcttca	ggatcttcgc	atatacatag	cagttctct	180
tttctaccag	aagatcagga	gtctcagac	tcttcttcgg	cagttcttag	ccgggattt	240
tttctcgct	tacgttctgg	ggtagacagg	gcctaaaaat	cattggcaa	cttttttcc	300
gcagagtcta	cgagtcaagc	ggtgaaaac	cgacaagctt	ttgttagatt	atcaaaaacc	360
atcacccg	atgagagacg	ggtatgtcgat	tcatcaagtg	ctgctgctac	agaagcccg	420
gtggcagagg	acgcgagtgt	ttcaggcgaa	aatcctctc	agggggttcc	agaaacctct	480
tctggaccag	aacctcagcg	tttattttct	cttccttcag	taaaaaaaca	gagcgtttg	540
ggtcgttgg	tacagacagt	tcgcgatcgc	atagacttc	ctagtgggc	tccacctaca	600
gacagcgagc	ctttaagtct	ctacgagctt	aacctccgtt	tgagttagtt	acgtcaggag	660
ctctctgaca	tacaaagtaa	tgatcgttg	actccagagg	aaaaagcaga	agccacagtt	720
accatacaac	agctgatcca	aattacagaa	ttccaatgcg	getatatgg	ggcaacacaa	780
tcttcggat	ctctagcaga	agctcgttt	aaggggttag	aaactagtga	tgagatcaat	840
tccctctgtt	cagaactgac	agatcctgag	cttcaagaac	tcatgagtga	tggagactct	900
cttcaaaacc	tattatgt	gactgcccac	gatttagaa	ctgctttgtc	ccatgctcg	960
tttagtttt	ctttagacga	taatccaaact	ccgatagaca	ataatccaac	tctgatcttct	1020
caagaagagc	ctatttatga	gaaaatcgga	ggagctcgac	atcctcaaa	aatcgggaa	1080
aactggctt	caagattatg	gaatcagatt	cgcgaggctc	tggttctct	tttaggaatg	1140
attttaagca	ttcttaggtc	catcttgcac	aggttgcgt	ttgctcgtca	tgcagctgt	1200
gaagcgttgg	gtcggttgg	cacgtgccga	ggagaagagt	gtacttcttc	tgaagaggac	1260
tcgatgtcg	ttgggtctcc	ttcagaaatt	gatgaaactg	aaagaacggg	cttcgcgt	1320
gacgttccac	gcagaatgg	aagtccacgt	gaagattctc	cattgtgaa	tgccttagta	1380
ggatggcac	ataagcacgg	tgctaaaacc	aaggagat	cagaatcaag	taccccgaa	1440
atttcgattt	ctgctccat	agtgagaggt	tggagtcaag	acagttccgt	cagttttatt	1500
gttatggaa	atgatcatat	ttctatgtat	gttcctcgta	gaaaagatgg	aatctatgac	1560
gttcctagtt	cccctagatg	gagtctcg	cgaggttgg	aaggaggat	ttttggagat	1620
tatgaagttc	ctataaccc	tgtgaacca	tctaaagaca	agaacatcta	catgacac	1680
agattagcaa	ctcctgtat	ctatgatctt	cttcacgtc	caggatcg	tggagctca	1740
cgttccgt	cttcagatcg	cgtagcagg	agtcacccaa	atagacgggg	tgtgcctt	1800
cctccagttc	cttcaccc	tatgatgtag	gaggggagca	tttatgagga	tatgagcggt	1860
gcttcagggt	caggtgaaag	tgattatgaa	gatatgagcc	gttccccctc	tcctagaggc	1920
gacttggatg	aacccatata	tgctaaatact	cctgaagata	atccatitac	tcaagaaaat	1980
ataagatagaa	ttttacagga	gaggtcaggc	gggtctccg	cttctctgt	agagcctatt	2040
tatgatgaga	tcccatggat	tcatggcagg	ccccctgtca	cacttccaag	acccgagaat	2100
acattgacta	atgtttcgct	tagagtggc	ccagggtttg	gaccagaagt	aagagccgt	2160
ttgttttagcg	agagcgtgag	tgcgtttag	gtcgaaagcg	agagtattgt	tcctccaaaca	2220
gaggcgggggg	acggagaatc	agaatatcta	gagccctag	ggggacttgt	agctacaacg	2280
aaaatcttac	tacaaaaagg	atggcctcg	ggagagt	cgatctttag		2328

## Seq ID 10

atgcgttttt	tttgcgttgg	aatgttgctt	ccttttactt	ttgtattggc	taatgaaggt	60
ctccaacttc	ctttggagac	ctatattaca	ttaagtcctg	aatatcaagc	agccccctca	120
gttagggttt	ctcataacca	aaatcaagat	ctcgcaattt	tcgggatca	caatgatttc	180
atcttggact	ataagtacta	tcgggtcgat	ggaggtgc	ttacctgtaa	aatcttctg	240
atctctgaaa	atataaggaa	tgtttcttt	gagaagaatg	tctgtccaa	ttctggcggg	300
gcaattttatg	ctgctcaaaa	ttgcacgtc	tccaagaatc	agaactatgc	atttactaca	360
aacttggct	ctgacaatcc	tacagccact	gcgggatcac	tattgggtgg	agctcttt	420
gccataaatt	gctctattac	taataaccta	ggacaggaa	cttgcgttga	caatctcg	480
ttaataaagg	gggggtccct	ctataactgag	acgaacttat	ctattaaaga	caataaaggc	540
ccgatcataa	tcaagcagaa	tcgggcacta	aattcggaca	gtttaggagg	agggattat	600
agtgggaact	ctctaaat	agagggaaat	tctggagct	tacagatcac	aagcaactct	660
tcaggatctg	ggggaggcat	atttctacc	caaacactca	cgatctcctc	gaataaaaaa	720
ctcatagaaa	tcaagtaaaa	ttccgcgtt	gcaaataact	atggatcgaa	cttcaatcca	780
ggaggaggag	gtcttactac	caccccttgc	acgatattga	acaaccgaga	aggggtactc	840
tttaacaata	accaaaggca	gagcaacggt	ggagccattc	atgcgaaatc	tatcattatc	900

aaagaaaaatg	gtcctgtata	cttttaaat	aacactgcaa	ctcggggagg	ggcttcata	960
aaccttatcg	caggttctgg	aaacggaaagc	ttcatcttat	ctgcagataa	tggagatatt	1020
atcttaaca	ataatacggc	ctccaagcat	gccctaatac	ctccatacag	aaacccatt	1080
cactcgactc	ctaataatgaa	tctgcaataa	ggagccgc	ccggctatcg	agtgtgttc	1140
tatgatccca	tagaacatga	gctcccttc	tccttcccc	tactctttaa	ttcggaaaacc	1200
ggtcatacag	gtacagttt	attttcaggg	gaacatgtac	accagaactt	taccgatgaa	1260
atgaatttct	tttcttattt	aaggaacact	tcggaactac	gtcaaggagt	ccttgcgttt	1320
gaagatggtg	cggggctggc	ctgctataag	ttcttccaac	gaggaggcac	tctacttcta	1380
ggtcaagggt	cggtgatcac	gacagcagga	acgattccc	caccatcctc	aacaccaacg	1440
acagttaggaa	gtactataac	tttaaatcac	attgcatttgc	accttccttc	tattttttct	1500
tttcaagctc	aggctccaaa	aattttggatt	taccccacaa	aaacaggatc	tacctataact	1560
gaagatttca	acccgacaaat	cacaatctca	ggaactctca	ccttacgcaa	cagcaacaac	1620
gaagatccct	acgatagtct	ggatctctcg	cactcttgc	agaaaagttcc	ccttctttat	1680
attgtcgatg	tcgctgcaca	aaaaattaaac	tcttgcac	tggatctatc	cacattaaat	1740
tctggcgaac	actatggta	tcaaggcattc	ttgtcgac	attttggtaga	aactacaaca	1800
atcacgaacc	ctacatctct	actaggcgcg	aataaaaaac	acaagctgtct	ctatgcaaac	1860
tggtctctc	taggctaccg	tcctcatccc	gaacgtcgag	gagaattcat	tacgaatgco	1920
tttgtggcaat	cggcatatac	ggcttgc	ggactccact	cccttcctc	ctggatgaa	1980
gagaagggtc	atgcagcttc	cctacaaggc	attttttttc	ttgttcatca	aaaagacaaa	2040
aacggtttta	agggatttct	tagtcatatg	acaggttata	ttgttaccac	cgaagcaacc	2100
tcttctcaaa	gtccgaattt	ctcttttagga	tttgctcagt	tcttctccaa	agctaaagaa	2160
catgaatctc	aaaatagcac	gtcccttcac	cactatttct	cttggatgtt	catagaaaaat	2220
actctcttca	aagagtggat	acgtctatct	gtgttcttgc	tttataatgtt	tacctcgaa	2280
cataccctata	caatgtatca	gggtctctcg	gaagggaaact	ctcagggatc	tttccacaac	2340
cataccttag	cagggctct	tcctctgttt	ttcttacctc	aacctcacgg	cgagtcctcg	2400
cagatctatac	ccttttattac	tccttaggc	atccgaggaa	atcttgcgtc	tttcaagaa	2460
tctggagacc	atgtcggtt	attttccata	cacccccc	taacggacgt	cttccctccct	2520
gttaggaatcc	gcgccttcttgc	gaagaaccac	cacccgatc	ccctagtcgt	gttcacagaa	2580
atttcctatc	gtctactct	ctataggcaa	gatcctgaac	tcactctgaa	attactgatt	2640
agccaaggta	cgtggacgac	gcaggccact	cctgtgac	acaatgcitt	agggatcaaa	2700
gtgaaaaata	ccatgcagg	gttctctaaa	gtcactctct	ccttagatta	ctctgcggat	2760
atttcttct	ccacgcgtg	tcactactta	aacgtggcga	gtagaatgag	attttaa	2817

Seq ID 11

atgaaaatcct	ctcttcatttgc	gttttaatc	tcgtcatctt	tagcacttcc	cttgcacta	60
aatttctctg	cgtttgtc	tgttgtgaa	atcaatctag	gacctacaa	tagcttctct	120
ggaccaggaa	cctacactcc	tccagccaa	acaacaaatg	cagatggaa	tatctataat	180
ctaacagggg	atgtctcaat	caccaatgca	ggatctccga	cagctctaac	cgcttctgc	240
ttaaaagaaaa	ctactggaa	tcttctttc	caaggccac	gctaccaatt	tctcctacaa	300
aatatcgatg	cgggagcgaa	ctgttacctt	accaatacag	ctgcaaataa	gtttctctcc	360
ttttcaggat	tctcttattt	gtcactataa	caaaccacga	atgctaccac	aggaacagga	420
gccatcaagt	ccacaggagc	ttgttctatt	cagtcgaact	atagttgta	ctttggccaa	480
aacttttcta	atgacaatgg	aggccccc	caaggcagct	ctatcgtct	atcgctaaac	540
cccaacctaa	cgtttgccaa	aaacaaagca	acgcaaaaag	gggggtccct	ctattccacg	600
ggagggattt	caattaacaa	tacgtttaaa	tcagcatcat	tttctgaaaa	taccgcccc	660
aacaatggcg	gagccattt	cacggaaagct	agcagttta	tttagcagca	caaagcaatt	720
agctttataa	acaatagtgt	gaccgcaacc	tcagctacag	ggggagccat	ttactgttagt	780
agtacatcg	cccccaacc	agtcttaact	ctatcagaca	acggggaaact	gaactttata	840
ggaaatacag	caattactag	ttgtggggcg	atttatactg	acaatctgt	tctttcttct	900
ggaggaccta	cgctttttaa	aaacaactct	gtatagata	ctgcagctcc	cttaggagga	960
gcaattgcga	ttgtgtactc	tggatctttg	agtcttcgg	ctcttgggg	agacatcact	1020
tttgaaggaa	acacagtatg	caaaggagct	tcttcgagtc	agaccactac	cagaaattct	1080
attaacatcg	gaaacaccaa	tgcttaagatt	gtacagctgc	gagcctctca	aggcaatact	1140
atctacttct	atgatccat	aacaacttagc	atcactgcag	ctctctcaga	tgctctaaac	1200
ttaaaatggc	ctgaccttgc	aggaaatcct	gcatatcaag	gaaccatcgt	attttctgga	1260
gagaagctct	cggaaagcaga	agctgcagaa	gctgataatc	tcaaatactac	aattcagcaaa	1320
cctctaactc	ttgcggggagg	gcaactctct	cttaaaatcag	gagtctactt	agttgccaag	1380
tcctttcgc	aatctccggg	ctotaccctc	ctcatggatg	cagggaccac	attagaaacc	1440
gctgtggga	tcactatcaa	taatcttgc	ctcaatgtat	attccttaaa	agagaccaag	1500
aaggctacgc	taaaagcaac	acaagcaagt	cagacagtca	ctttatctgg	atcgcttct	1560
tttgttagatc	tttctggaaa	tgtctacgaa	gatgtcttct	ggaataaacc	tcaagtcttt	1620
tcttgtctca	ctcttactgc	tgacgacccc	gcgaatattc	acatcacaga	cttagctgct	1680
gatcccctag	aaaaaaaaatcc	tatccattgg	ggataccaag	ggaattgggc	attatcttgg	1740
caaggaggata	ctgcgactaa	atccaaagca	gcgactctt	cctggacaaa	aacaggatac	1800

aatccgaatc ctgagcgctg tggAACCTTA gttgctaaca cactatgggg atcctttgtt 1860  
 gtgtgcgt ccataaca actaaagtac gccaatctca agaaaactcgc 1920  
 ggcattctggt gtgaaggat ctcgaacttc ttccataaag atagcacgaa gataaataaa 1980  
 gttttcgcc acataagtgc aggttatgtt gttaggagcga ctacaacatt agcttctgat 2040  
 aatcttatca ctgcagcctt ctgccaatta ttcggaaaag atagagatca ctttataaaat 2100  
 aaaaatagag cttctgccta tgcaagcttct ctccatctcc agcatctgc gaccttgct 2160  
 tctccaagct tgtaacgct cttccctggta tctgaaagtg agcagcctgt cctctttgat 2220  
 gtcagatca gctatatac tagtaaaaaat actatgaaaa cctattacac ccaagcacca 2280  
 aaggagaga gtcgtggta taatgacggt tgcgctctgg aacttgcgag ctcccattacca 2340  
 cacactgctt taagccatga gggtctcttc cacgcgtatt ttccattcat caaagtagaa 2400  
 gcttcgtaca tacaccaaga tagcttcaaa gaacgtaata ctaccttggt acgatcttc 2460  
 gatagcgggtg atttaattaa cgtctctgtg octattggaa ttaccttcga gagattctcg 2520  
 agaaaacgagc gtgcgttta cgaagctact gtcatctacg ttgcgcgtgt ctatcgtaag 2580  
 aatcctgact gcacgacagc tctcataatc aacaataacct cgtggaaaac tacaggaacg 2640  
 aatctctcaa gacaagctgg tatcggaaaga gcagggatct ttatgcctt ctctccaaat 2700  
 cttgagggtca caagtaacct atctatggaa attcgtggat cttcacgcag ctacaatgca 2760  
 gatcttggag gtaagtccaa gttctaa 2787

## Seq ID 12

atgtttgaga agttcactaa tagagaaaaa caagtcattaa aactggcgaa aaaggaggct 60  
 cagcgtttaa atcataacta cctgggtact gggcacatcc tgcttggctc tctcaaactt 120  
 ggtcaagggg tagctttaa tgattacgc aacctcggtt tagattttgta tacggcacgg 180  
 caagaggtgg aacgcctgtat tggttatggt ccagaaattc aagtctacgg agaccctgccc 240  
 cttacaggaa gagtaaaaaa atctttgaa tcagcaatg aagaggccag ctttttagag 300  
 cacaattatg tcgggacggg gcatttactc tttagggatcc tacatcaatc agatagtgtc 360  
 gctttcagg tattagaaaaa cttacatatac gatccaagag agttcgttaa gggaaattctt 420  
 aaagaattag agacctcaa tctacaactt cctcctcgt cgtcgcttc ttccctcatcc 480  
 tctcgaagca acccttcatc ttcaaaaatct cctttaggtc atagctttagg ttctgacaaaa 540  
 aacgaaaagc tttctgtct gaaagcatat ggttatgatt taacggagat ggtccgagag 600  
 tctaagctcg atcctgtcat tggtcggttct tcagaagtcg aacgggttgc ttgtattctt 660  
 tgccgaagaa gaaaaaacaa tcctgtactt attggagaag ctggagttgg taagactgca 720  
 atttgttggg gtctggctca aaaaatcatt ctgaatgagg ttctgtatgc cttacggaaa 780  
 aagcgactga ttactctaga tctagcattat atgattgtcg gaacaaaata tcgagggcaa 840  
 tttgaggaac ggatcaaagc tgcgtatggat gaagttcgcgaa agcatggaaa catcttgc 900  
 ttoattgtacg agtccccacac gattgttaga gcaggaggcag ctgaagggtgc tatcgatgtc 960  
 tcaaacattt taaaacactgc gttagcgcga ggtgaaattc agtgtattgg agcaactacg 1020  
 atagatgagt atcgcgaacaa catagaaaaa gacgcagctt tagaacgtcg tttccaaaaaa 1080  
 atcgtgggtc accctcttag tgcgtatggat actattgaga ttttacgtgg cctcaagaaaa 1140  
 aagtatgaag aacatcacaa tgcgttcttactt actgaagaag cttaaaagc agctcgact 1200  
 cttctgatc aatatgttca tggacgttcc ctccctgata aagcaataga tcttttagat 1260  
 gaagctgggg ctcgtgtccg tgcgtatggat aatgggtcgc ctacagattt aatgaagcta 1320  
 gaggctgaaa tcgaaaatac aaaattggcc aaagagcagg ccattggaaac tcaagaatac 1380  
 gaaaaagctg cagggttacg tgatgaagag aaaaaacttc ggcgcgtct gcaaagtatg 1440  
 aaacaggaat gggaaaatca taaaagaagag ccccaatttcc ctgttagatga agaagcagtc 1500  
 gtcaggtag tttctctaca aacaggaatt ccctcgtcc ggcgcacaga agctgaaagt 1560  
 gagaagctc tgaagtttgcg agacacgtt aaaaaggatc tgcgtatggat aatgtatgcc 1620  
 gttaccagca ttgcgtgc catccgcacgt tgcgtatggat ggcgcgtcc ttttacgtgg 1680  
 cctacgggtc cttccattt cttggggcct acgggttag gggaaaagcct gtcgcctt 1740  
 caaattgtca tagagatgtt cgggtgtgaa gacgcgttgc ttccgtatgc catgtcagag 1800  
 tacatggaga aatttgcgtc tcccaagatg atgggtatcc tccaggata tgcgtatggat 1860  
 gaagaagggg gccacccatc gggaaaatca taaaagaagag ccccaatttcc ctgttagatga 1920  
 gatgagatag aaaaggcaca cccagacatt atggacgttgc ttttacgtggat aatgtatgcc 1980  
 ggacgttca ctgattttt tggatccat gtcgtatggat ttttacgtggat aatgtatgcc 2040  
 acctccaaatt tggatccat gtcgtatggat ttttacgtggat aatgtatgcc 2100  
 tcccatatgg actataaggt catccaaatc gggaaaatca taaaagaagag ccccaatttcc 2160  
 aaggctgatc tccatccatc ttttacgtggat aatgtatgcc aatgtatgcc 2220  
 tctctatcg agatcatcca ttttacgtggat aacaaacttgc actcgagact gaaaactac 2280  
 caaatggctt tgaacatccc agactctgtg atttccctcc tagtacgc gggcattct 2340  
 ccagaaatgg gggcgttgc tccatccatc gtcgtatggat aatgtatgcc aatgtatgcc 2400  
 ggggagctct tggatccat gtcgtatggat aatgtatgcc aatgtatgcc 2460  
 gttgaaaatc gggcgttgc tccatccatc gtcgtatggat aatgtatgcc aatgtatgcc 2520  
 cttctatcg aatcatccatc 2538

## Seq ID 13

atggggctgc	aatccagggtt	acaacattgt	atagaagtgt	cccagaattc	gaactttgat	60
tcacaagtaa	aacagtttat	ctatgcgtgc	caagataaga	cattaaggca	gtctgtactc	120
aagattttcc	gctaccatcc	tttactaaaa	attcatgata	ttgctcgccc	cgtctatctt	180
ttgatggcc	tagaagaagg	cgaggattta	ggcttaagct	ttttaaatgt	acagcagtagc	240
ccttcagggt	ctgtagaact	gttttcttg	gggggatttc	tttggaaagg	attacottat	300
cctgcagaac	atgoggaaat	tggcctactc	ctgttacaga	tccgagagtt	ttatgaagag	360
atgcaggcat	acgtctctaa	aatgagtcat	tttcaacagg	cactcttga	tcaccaaggg	420
agcgtcttc	cctctctctg	gagccaggag	aactctcgac	tcctaaaaga	aaagacaact	480
cttagccaat	cgtttctctt	coaattagga	atgcaaattc	acccagaata	cagtcttgag	540
gatcctgcac	tagggctctg	gatgcaaaga	acgcgttctt	catccgctt	tgtagccgct	600
tcaggatgtc	aaagtagctt	gggagcgtat	tcctcagggg	atgtcgggt	tatcgcttat	660
ggaccttgct	ctggagacat	tagtGattgt	tattattttg	gatgttgtgg	aatcgctaaa	720
gagttcgtgt	gccaaaaaaatc	tcaccaaact	acagagattt	cttttctcac	ctctacagga	780
aagcctcatac	ccagaaaatac	gggattttcc	taccttcgag	attccttatgt	acatctgccc	840
atccgctgt	atgactactat	ttccgacaaag	caatatcgcg	tgcacgctgc	gttggctgag	900
gcacacctcg	ccatgacgtt	ttctattttc	tgtaaaggga	agaattgtca	ggttggttgac	960
ggccctcgct	tgcgctctg	ttccctagat	tcttataaaag	gtcccgaaaa	cgacattatag	1020
attcttgggg	aaaatgacgc	aatcaacattt	gtttctgca	gtccctatat	ggaaattttt	1080
gctttgcaag	gcaaagaaaa	attttggaaat	gcagactttt	tgattaatat	tccttacaaa	1140
gaagagggcg	tcatgttaat	tttggaaaaaa	aaagtgacct	ctgagaaaagg	aagattcttt	1200
acgaagatga	attaa					1215

## Seq ID 14

atgacaaaaga	tagcttttc	tggaaaaggca	aagaattttc	ctgttagaggg	attaaaaaaaaa	60
tggtttggaa	aaaataaaacg	atctcttcct	tggagagata	acccgactcc	ctatagtgtg	120
tgggttccg	aagttatgtct	acagcaaaccg	cgagctgaag	ttgttataga	ttatTTTaaat	180
cagtggatgg	agagatttcc	taccatagag	tctttagctg	cagaaaaaga	agaagatgtc	240
attaaagtat	gggagggattt	gggttattat	tctcgagcgc	gcacatcttt	agagggagct	300
cgcattggta	tggaggagtt	tcatggaaag	atccctgtat	atgcattttc	cttagctcaa	360
attcgtggag	ttggtcctta	tacggttcat	gctattctag	cctttgctt	taagagggcgt	420
gctgtctgt	tggatggcaa	tgtcttgcgt	gttcttagcc	gatatatttt	gatagaaaact	480
tctatagact	tagaatcaac	tgtacttgg	gtttcttagga	ttgctcaagc	gcttcttcct	540
cataagagtc	ccgaggattat	agctgaggct	ctgatagagt	tggagcttg	tatctgtaaa	600
aaagttctc	aatgtcatcg	ttgtcctgtc	cgtcaagcat	gtggagcttg	gagggagaac	660
aaacagttcg	tattgccccgt	acgtcatgoc	agaaaaaaagg	tcatctttt	gcatcggtt	720
gtacgcattt	tattgtacga	tggctctttt	gttgtcgaga	agagacgtcc	taaagaaaatg	780
atggcaggct	tatataattt	tccttatatt	gaagttgaac	cagaggaagg	tcttcaagat	840
atagaaggat	ttactaagaa	gatggagctt	tctttagaaaa	gccttttgg	attcttaggt	900
aaccttaaag	aacagggca	tgcgtttact	aatcataagg	ttcattttgtg	tcctataatt	960
tttaaagcca	tttctctgcc	tcaatgggg	gaattgcata	ttttgagtga	tatagatcac	1020
ttagctttt	tttcaggaca	caaaaagatt	aaagatgctt	tgctaattcta	cctcgggat	1080
gtcaggctca	gagaatcaat	aggagtata				1110

## Seq ID 15

atggcagttt	caggtggccgg	aggggttcag	ccttcttcgg	atccaggaaa	gtgaaatcct	60
gctctgcaag	gagagcaggc	agaaggcccc	tctccgctaa	aagaatctat	attttctgaa	120
accaagcagg	cctcctctgc	tgcgaagcag	gaaagcttag	tgcgttcagg	atctacagga	180
atgtatgcaa	cagaatctca	gataaataag	gctaagtatc	gtaaagctca	agatcgatca	240
tcaacctctc	caaaatccaa	attgaaagggt	acatttctca	aatgcgcgc	tagtgtgca	300
ggatttcatgt	caggattcgg	atctcggtt	tcgagagtgt	cagaaaaagg	tgcttccgat	360
agtggtgagg	gaacatcctt	attgcccaca	gagatggatg	ttgtcttaaa	gaagggaaaac	420
cgtatttcac	ctgaaatgca	gggatttttc	ttagatgctt	cgggtatggg	agggagttcc	480
tctgatattt	ctcagctttt	tttagaggct	ttgaaatctt	cagcattttc	aggtgcgcagg	540
agtttaagtt	taagctcttc	agaatctagt	tccgtggctt	cgtttggatc	tttccaaaag	600
gccccatagac	ctatgatgta	ggagaaggta	aatgttttga	cagttggctcg	ttttaggagg	660
gagatggtca	gctctttctt	cgatccaaat	gttggacact	catcattttt	gcccggggca	720
atggcaacag	gcaacgaagg	catgatagat	ctttctgttt	taggacagga	agaggtcagt	780
acagccatga	catctcccg	agcagtagaa	ggaaaagtaa	aggatcttc	ttctgtattt	840
ccagaagcga	atccaaacagg	aattccaaat	tctaatactt	tagaaagggc	ggaaaaggaa	900
gcagagaaac	aagaaaatcg	agagcaggta	agtggggatc	agatgtatgt	tgcacgtgt	960
atggctggc	tttttacagg	ggcagcgcct	caagaggat	tgatgtttt	ttttgggtct	1020
ggtcttctca	cagtatttcc	tcctcccaag	ttttcaggaa	cttttacccac	ccagagatcg	1080
ggagataaat	caaagcataa	atctccagga	atagagaaga	gtacgaacca	taagaaat	1140
tctctcttc	gggaagggtac	tgtgaagagt	gctgaggta	aaagtttgcc	tcatccagaa	1200

agtatgtatc	gtttccctaa	agatagcatc	gttccaggg	aggaacctga	agccgttgg	1260
aaagaatcta	cggcattcaa	aatccagag	aatagcagtc	aaaacttct	ccctattgt	1320
gtggagagt	tttccctaa	ggaaagtgg	acgggagggg	cttaggaag	tgatgtgt	1380
atcttcat	atcatttct	tgcgcaacgt	ggagtgtt	tactcgctcc	tctacctcg	1440
gctactgtatc	actataaaga	gaagctcgaa	gctcataaag	gtcctggagg	tcctccagat	1500
ccttgattt	atcagatatcg	aatatgttgc	gttgagccgc	caattgttct	ccgttctccc	1560
cagccgttt	caggatctc	acgtctatcg	gttcaaggaa	agcctgaagc	tgcttcagtt	1620
catgacgatg	gtgggggggg	aatatgttgc	gtttagcg	gagatcaaag	aagagatct	1680
tcgggccaga	aagctcccc	tcaggaaaag	aaggaaaaaa	aattatctac	ggatatttag	1740

## Seq ID 16

atgaaacgaa	gatcatggct	taaaattttgc	ggaatctgtt	taggcagcag	cattgtcttg	60
ggattccctta	tattcttgc	ccaaactactt	tcaacagaat	cagggaaata	ccttgcgttt	120
tccctgatc	ataaaagaatc	cggactctcg	tgttctgctg	aagaacttaa	gatttcatgg	180
tttggacggc	aaacagctag	aaaaataaaaa	ctcactggag	aagctaaaga	tgaggtctt	240
tctgctgaga	aattcgaact	cgacggatct	ctattacgtc	ttctgattt	aaaaaagcct	300
aaagggatta	ctctatcagg	atggcttttta	aaaattaatg	agcctgcctc	tatagaccat	360
ccttctgtga	gtcactttaga	tcaggatct	ttacttacct	acctaaatga	ctgcaagatt	420
atttctgagc	acggatttat	cactatgaag	acatgtatcg	gatcttcat	atctgtatca	480
gggttttattc	tagagaaaatc	ctcagaaaaag	ttoatgacga	aatgcgtgg	ctctgaagat	540
cagcaatccg	ggaacatctt	tatagagagt	gtactttctc	ctgatgtcag	tatcccgt	600
cagtttctt	cagttcccg	tgcatttttta	aaaattttta	tagttcccc	tttctggac	660
catcttctct	tttatgaaga	cataatcaat	ctatcagcag	aggcaacaca	taccaatgt	720
ggttaagattt	ctatgacagc	ctctggcgag	ggaatcaaa	ttcaatgaa	gcttcaggc	780
catattcata	aatccacatt	ttatattgtt	gaagggagtt	cttcgttcat	agaactaaaa	840
cctgagctcg	cctcagctct	ttgcaaccag	atcattccgc	tgtccacacc	cattactagt	900
aagcaaatcc	atgctacgg	ctttagtgc	aaaattccct	tgatattac	gaaatggaaa	960
catattgaaa	ttaccttc	agcacagctc	cctgaagtcg	caatacatcc	gaaagaccct	1020
aatcttgc	catagctcg	cgacacaaag	ctaggaatta	aaaagacgg	gaaattctca	1080
gacatccgtt	actcctc	tacagtctt	ggaggagctt	ctccctctca	cottaatgg	1140
ttaatcgtat	tagataacaa	aaaacatctt	actaaatttc	gtctacaaca	agcacaactc	1200
ccccacac	atctaagagc	cattttcc	caaccttc	tgatcaatgt	tcccctggat	1260
gttgcttatt	attcataaa	tatcgaagg	acgtacaaaa	atgctactt	agaggcagat	1320
gctatcctag	ataaccgc	attgaaatttgc	tcatgttcca	tgtctggac	atggaaaaat	1380
tttcttttta	aaggcaagg	aacgttccac	ttaataaaaa	aatggcagga	gattctct	1440
ccccacttct	tttacgtc	agctagattc	tcagggaaag	cacaaattac	cgatacgaat	1500
ctcttttcc	ctaaatttcc	tggaaaaatt	actgcaagag	aaaatgagct	gctcatccat	1560
gaaaaatttgc	gttccc	tgaacctata	aaacctgaaa	ctacctctat	actcatccac	1620
ggacaatttt	gttctctg	actcagctt	gtttctatc	acctagcccc	cttccatttgc	1680
aagaaatttgc	cattttcc	ccatacggat	ggaggttaat	ttgtacccaa	aggaaaccc	1740
caagcttctt	ttgagaatcc	agactatccc	gacctaaata	atacgcgtat	cctaattcc	1800
gatcttctt	tttctcttgc	tgaatcctca	acttcaccc	cttccaaaga	tttgcggatc	1860
cagggttctg	gagagatatt	tttcttgc	ctggatctt	ttactaagac	ctatggaaa	1920
caagtgcgtc	tctctctt	ttttgggtcc	tctggagact	tgaactttgt	atgaaactac	1980
aatcttcaaag	atcagaataa	gctcacacta	ctatctaact	ttaagtctcaga	agctctcc	2040
ggagaactga	agtttgtat	ggactttct	atgaagttat	cttcaggaaac	tcaggaaact	2100
ctccagtg	aagtggccc	agaacgttat	gcaagttct	ttaaaaacgc	atcatgtct	2160
cccacctgtt	tgcttc	atactgcaat	gtacgcttag	acatctcaaa	actctcttgc	2220
ccagaggaaa	ccaaagg	ttttgtctc	acgcttc	ccgcaggagg	acttgaaggt	2280
tcatttgc	caacaccgtt	gatcttctat	gataatgtgt	ctaaagagac	ttttattatt	2340
aatgacttta	aaggttctt	gcgagccaa	aatttagac	ctaaataga	atatgatctt	2400
aaaggctcg	gtctagtc	taggcaagac	tctaaaactc	tttgcggat	ttcattagaa	2460
ggacaggtag	atcatctgtt	cttc	tctcgagaat	ttaaacaac	tgcaaaattgg	2520
attcacatac	cctcttcgtt	cattgttgc	atcattccca	tgtctccagg	attgaaagct	2580
cagatatctt	cgcttgc	ccctagaatc	aacgtatcaa	ttaaaaatgc	tttccgattt	2640
ggagaaggcc	ctgtcg	acat	tctgaaaacc	ttcaagctca	gattccact	2700
atctttaacg	aaaagtccat	tttactgaga	gagaatctaa	cagcgcac	tagtataat	2760
gaagatgtaa	ataaggctt	cctacaagag	ttaatcccc	tcttagcagg	gggagctac	2820
tcacaatacc	cgttac	agagatcgat	aaacaaaact	tctatctccc	tataccccc	2880
tatttttttgc	aagaattcc	catccaatcc	gcaacattgg	atatgggaa	aatctcaata	2940
gcaaaatcc	gaactatgtt	tgcttttgc	caattcc	atattacgg	tcaaaagccaa	3000
tttgc	tttgc	ttttctgtac	aaaaaggctc	tatcatttgc	3060	
aagcgcyc	acgcctt	cgatgttgc	atccgc	ctctatgggg	gaaaactgat	3120
atcgctatg	atcgctgtt	tatgaccttgc	ggtatgttgc	ctgaagttat	taagaaatac	3180

tttcataaca	cctctttaaa	aactaaaaac	ttcttcctta	aaaaaatccg	aggatccatc	3240
tgtctcctg	aagtggactg	gtcttcagct	tacgcttagaa	tcgctctatt	aaaaagctac	3300
agtcttggga	acccgtag	tagtcttgcc	gataagctat	tctttctct	tggcgactct	3360
acccccac	caacagtaca	ccccctccct	tggaaaaat	ctaatttga	ttctatagaa	3420
aataaaatag						3429

## Seq ID 17

atgtcatctc	ctgtaaaataa	cacaccctca	gcaccaaaca	ttccaatacc	agcgccccacg	60
actccaggt	ttccataaac	aaaacctcg	tctagttca	ttgaaaaggt	tatcattgt	120
gctaagtaca	tactattgc	aattgcagcc	acatcaggag	cactcggAAC	aattcttaggt	180
ctatctggag	cgctaacccc	aggaatagg	attgccttc	ttgttatctt	ctttgtttct	240
atggtgctt	tagtttaat	ccttaaagat	tctataagt	gaggagaaga	acgcaggctc	300
agagaagagg	tctctcgatt	tacaagtgg	aatcaacgt	tgacagtcat	aaccacaaca	360
cttgagactg	aagtaaagga	tttaaaagca	gctaaagatc	aacttacact	tgaaatcgaa	420
gcatttagaa	atgaaaacgg	taatttaaaa	acaactgctg	aggacttaga	agagcagggt	480
tctaaactta	gcpaacaatt	agaaggacta	gagcgaatta	atcaacttat	ccaagcaaac	540
gctggagatg	ctcaagaaat	ttcgtctgaa	ctaaagaaat	taataagcgg	ttgggattcc	600
aaagttgtt	aacagataaa	tacttctatt	caagcattga	aagtgttatt	gggtcaagag	660
tgggtgcaag	aggctcaaacc	acacgttaaa	gcaatgcgg	agcaattca	agcattgca	720
gctgaaattc	taggaatgca	caatcaatct	acagcattgc	aaaagtctgt	tgagaatcta	780
ttagtacaag	atcaagctt	aacaagagta	gtaggtgagt	tgttagagtc	tgagaacaag	840
ctaagccaa	cttgcattgc	gtacgtcaa	gaaatagaaa	agttggccca	acatgaaaca	900
tctttgcaac	aacgttattga	tgcgtatgca	gcccaagagc	aaaattttggc	agagcaggctc	960
acagcccttg	aaaaaatgaa	acaagaagct	cagaaggctg	agtccgagtt	cattgcttgc	1020
gtacgtgatc	gaactttcg	acgtctgtaa	acacccctcc	caacaacacc	tgttagttgaa	1080
gtgtatgaaa	gtcaagaaga	agacgaagga	ggtactcccc	cagtatcaca	accatcttca	1140
cccgtagata	gagcaacagg	agatggtcag	taa			1173

## Seq ID 18

atgcgatgt	acccaaactt	aatagaaaaaa	aaatggcaac	aattttggaa	agaacatcg	60
agctttcaag	caaatgaaga	cgaggataaa	gtaaaatatt	atgtttttaga	catgtccct	120
tatccttcag	gaggcaggct	acatgttaggc	caccttatttgc	gtatatacg	gacagatatt	180
gttgcgagat	ataaaaagac	acggggatttgc	tcagttcttgc	atccatatggg	ctgggatagc	240
tttggtttgc	ccgcagaaca	atatgcgatt	cggacaggaa	cccatcctaa	agtcacgacc	300
cagaagaata	tcgtaattt	taaaaaacag	ctctccgta	tgggattttc	gtatgtgaa	360
ggacgagaat	ttgctacgag	tgatcccgac	tattatcatt	ggactcagaa	acttttcctt	420
tttctttatg	atcaaggact	cgcctatatg	gccgacatgg	cagtgaacta	ctgtccagaa	480
cttggtaccg	tattatcggaa	tgaagaaggat	gaaaatggat	tctcaataga	agggggatat	540
cctgttagagc	ggaaaatgtct	tgtcagtgg	attctoaaaa	tcacagcata	tgccgataag	600
ttattagaag	gtctcgatgc	cctagattgg	cccggaaat	taaagcagtt	acagaaaaat	660
tggataggg	aatctgaagg	ggctctcgta	acatttcatt	tgacgcaga	gggcagtc	720
gaagccttca	ctacccgcct	agacacttta	ttaggggtga	gtttcttagt	gattgctcct	780
gagcacccag	atttagattc	tatagtgg	gaagagcaaa	gagacgaagt	cacagectat	840
gtacaagaga	gtctcgagaa	aagtgaacga	gatcgcatttgc	gtctgtttaa	gacaaaaaca	900
ggggcttttta	cagggaaacta	tgccaaagcac	cccattacag	ggaaccttttgc	acctgtttgg	960
atttcagatt	atgtcgctt	aggctatggc	acaggctgt	ttatgggagt	cccagcgcatt	1020
gacgagagag	atcgagatgt	tgcgttatttgc	ttttcttc	cgattcatga	ggtgattgtat	1080
gataacgggg	tttgcattca	tagcaattac	aacgacttttgc	gtttaatgg	cttgcgttgg	1140
caagaagcta	aagattatgt	aatcaactac	ctggagatgc	gttctctcg	aagagctaa	1200
actatgtaca	ggctgcgaga	ctggcttgc	tctagacaga	gatattgggg	agagccat	1260
ccatcatcc	attttgcggaa	tggAACGAC	cgtccttgc	aagatgtat	gctgccttgc	1320
ctccctccga	atattgtat	ctatcgccc	gaaggattcg	gtcagggtcc	tttagcgaag	1380
gctcaagatt	gggtgcata	ctacgacgag	aagacaggta	gaccaggatg	tagagagact	1440
tatactatgc	cacagtggc	aggcttgc	tggattttatc	ttcggttctg	tgatgcacac	1500
aactctcagt	tgccttgcg	taaaagaaaaaa	gaaagctatt	ggatgcctgt	agatcttac	1560
atggaggtg	cagaacacgc	tgttcttcat	tttctttact	cgagattttg	gcatcgatc	1620
ttctatgacg	cggttcttgc	ctcaacacca	gaaccttttgc	agaaaactgtat	caaccaggaa	1680
cttgcgttgc	ccttgcata	ccgaatttgc	ggttgcggat	acgttgcata	agaagacgtt	1740
aggaaagaaa	atggAACGTC	gatctcaact	tgtggagaga	ttgtggaaat	tagacaagag	1800
aaaatgtata	aatcgaaact	caatgggtgt	gatcctcagg	ttttgattga	agagatgtgt	1860
gcagatgcct	tacgtatgt	cgctatgttt	tcgggaccct	tggataaaaaaa	taaaaactgg	1920
tccaaatgaa	gtgttgggg	gtggcgtcg	ttcctaaatc	gtttttatga	tttgcgtact	1980
tcgtcagagg	ttcaagat	agaagaccgt	gacggctgg	tttcgcgtca	caaattggtg	2040
tttaggatta	cagaacat	tgaaaaatg	tcttgcata	ccataccgtc	ttcattatgc	2100

gaatttctga acgatttttc aaagcttcca gtctattcta aacgtgcctt	gtctatggct	2160
gtcgtgtat tggagccat agctccgcattc	atcagcgaag agttatgggt tatattggaa	2220
aaccaccaggattatca agcagcatgg cctcaaatag acgagagttt	ccttagttgt	2280
caaactgtga cttttgttgc ttaggttaat gggaaatgtac gaggacgtct	cgaggtagcc	2340
aaagaagctc ctaaaagaaga agttttatct ttgtctcgaa gtgttagttgc	aaagtatcta	2400
gagaacgctc aaatacgaaa agaaaatttat gttccataa aactagtgaa	ttttgtccta	2460
tga		2463

## Seq ID 19

ttggagaaaa taatgttcgg agaaaattct cgagacatttgc	gagttcttc taaagaaggaa	60
ctatttgata aatttagagat aggcatagct tcagatatta	caattcgtga taaatggct	120
tgtggagaaa tcaaaaagcc agaaaactata aattaccgtt	cgtttaaacc tgaaaagggc	180
ggtctatTTT gtgaaaaat ctttgttgc actaaagattt	ggaatgttg ctgcggaaaa	240
tataaaaaaa taaaacataa aggaattgttgc	tgcgtatcgat gcggagttga agttactt	300
tcaaaagtcc gtcgtgaacg tatggctcat atcgagtttgc	cagttccat tgcgtatcgat	360
ctgaaacgtg tcatttatta tgaagaatatttgc	ttggaaatgtac agcttcggat	420
actaaaaaac aacttcttaa tgatgcgcattat	gtatgttgc acccaggtaa gacagaccta	480
gacgcttcg ttgctaaaaat gggtggcgaa gctatctat	tttggttgc gttgggttaag	540
ctccaaagct tgcttaaaga tcttaaagag cgtttacgc	aaacaaaatc tcagcaagcg	600
agaatgaagt tagccaaacg tcttaaatttgc attgagggat	ttgtttcttc atccaaaccac	660
ccggagtgga tggtattttaa aaatatccccat	gtagttccat ctgtatctccg tcctttgtt	720
cctttagatg gcggtcgat tgcgtatcttgc	gatttttttttttgc atctctaccgc	780
aatcgtaaca atcgatcttgc	cgtttttttttgc cctgttgcattt	840
aatgaaaagc gtatgttgc agaagctgtt gatgtcttgc	ttgataacgc tgcacatgg	900
catccggtca tgggagctgg aaaccgacca ttgaaatcttgc	tgcgtatcgat gttaaaggaa	960
aaaaatggac gttccgtca aaatcttttgc	ttgactactt tggacgttct	1020
gtaatttatttgc ttggctcttgc	atttttttttttgc atccgaagat	1080
tttagagctat tgcgtatcttgc	tttttttttttgc gtttttttttgc	1140
attcggttgc ttaagaaaaat gattcaacgc	tttttttttttgc ttgttttttttgc	1200
gagatcatttgc agggacatcc agtacttcttgc	tttttttttttgc ttgttttttttgc	1260
attcaagctt tgcgtatcgat atttttttttttgc	tttttttttttgc ttgttttttttgc	1320
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1380
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1440
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1500
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1560
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1620
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1680
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1740
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1800
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1860
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1920
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	1980
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2040
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2100
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2160
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2220
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2280
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2340
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2400
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2460
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2520
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2580
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2640
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2700
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2760
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2820
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2880
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	2940
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3000
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3060
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3120
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3180
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3240
tttttttttttgc ttgttttttttgc	tttttttttttgc ttgttttttttgc	3300

gtcggAACCT	atgcgattcc	ttcaggagcg	attatctctg	tagaagaagg	acaacgggtt	3360
gatccaggta	tgttgttagc	tagacttcct	cgcggagcta	tcaaaaacaa	agatattact	3420
ggcggtttgc	ctcgtgtgc	tgaatttagta	gaagctcgta	aacctgaaga	tgctgtcac	3480
atcgccaaaa	ttgatgggt	tgttgacttc	aaaggaaattc	aaaagaacaa	acgtattctt	3540
gttgtctgt	atgaaatgac	agtatggaa	gaagaacatc	tgattccatt	aaccaaacat	3600
ttgattgtac	aacgtggaga	tagtgtgatt	aaagggcage	agcttaccga	tggtttagtt	3660
gttcctcatg	aaatccota	aatttgcgga	gttcgtgaac	ttcagaagta	cctggtaat	3720
gaggtgcagg	aagtttaccc	tctgcaggc	gttgacatta	acgataagca	tattgaaatt	3780
attgttcgtc	agatgttaca	aaaagtacga	attactgacc	caggtgatac	gactctgctc	3840
tttggcgaag	acgtgaataa	gaaagagttt	tatgaagaaa	atcgtcgtac	cgaagaagac	3900
ggtggtaaagc	cagctcaagc	tgttcccgtc	ttattggaa	ttacgaaagg	ttctttgggt	3960
acggaatcgt	ttatatcagc	agcttctttc	caagacacaa	ctcgagtctt	aacagatgca	4020
gcttggta	gcaaaaccca	ctacccctt	ggatttaagg	aaaatgtgat	catgggtcat	4080
atgattctg	gtggtaacagg	cttggaaac	cataagcgta	ttaagcagta	tctagaaaaa	4140
gaacaagaag	atctcgttt	tgattttgtt	agtgaaacag	agtgtgttt	ttaa	4194

## Seq ID 20

atggatacac	agtcccttat	agtaaacgaa	aatggcgta	ttgcaggaac	ctctgttagtt	60
tctggatgg	ccttagtaa	agatttttt	ttggaaacat	cccccttgc	tgttcgtgag	120
ctgactctac	ctcaagaaga	agtcgaacat	gaaatacatc	gttattataa	agctttaat	180
cgcctcaagt	ctgatatcgt	agctttagaa	caggaagtta	cgggacagca	aggccttcaa	240
gaggtttcct	ctatccatac	agcacactt	gagattatga	aaagccctt	ccttacggag	300
gaggtggtca	atactatccg	taaggatcgt	aaaaatgcag	aatatgtctt	ttcttcagtc	360
atgggtaaaa	tagaagagtc	gttaacagca	gtccgcggg	tgccttctgt	tgttagatcgt	420
gttcaagata	tccatgatat	ctccaaataga	gttatcggcc	atctgtgtt	ccaacataag	480
agttctttag	gagaatctga	tcagaattt	atcatattct	ctgaggaatt	gacccctca	540
gaagtcgcca	gtgctaactc	tgccttatatc	cgagggttt	tctcattatgt	gggagcagcc	600
acatcacata	cagctatcgt	ctcgcgagca	aagagcattc	cctatcttc	taatatctcc	660
gaggagctt	ggaacatcgc	aaagcgatat	aatggcaagt	tagtcttaat	cgacggttat	720
cgtggagagc	taatctttaa	tccaaacca	gchgactctac	aaagctgcta	aaaaaaaaagag	780
cttccgtgg	ttgcccatac	ctctcagaga	ttagtaagaa	agtcctaca	cccgattgtt	840
tcttcgcgt	caggcagtga	taaggacgta	gaagatctat	tagagaactt	ccctcaaacc	900
tccataggcc	tcttcgttc	tgagttttt	gctgttaattt	taggacgcct	acctacacta	960
agagagcaag	tagatctta	cgagaagctc	gcacgtttc	ctggagattc	gccctcagta	1020
ctgcgcctct	ttgattttgg	tgaagacaaa	ccttgccttg	gaataaaaaaa	taagaaagaa	1080
cgttctatac	gatgggtgct	agactatagt	gtgatttttgc	aggatcagct	ccaagcaatt	1140
gctaaaggcct	ctttgcagg	ctccataaaag	gttctcattc	caggagtgtc	tgacgtttct	1200
gagattatag	aagtcaaaaa	gaaatgggag	accatccaga	cgaggttccc	taaaggccat	1260
aaggtttctt	gggggactat	gatagaattt	ccttctgcag	tttgatgtat	tgaagagatc	1320
cttctgaat	gtgattttct	ctctataggg	acgaatgacc	tttccaaata	tactttggga	1380
atttccaggg	aatccgcct	tccaaacat	ctaaatgtaa	cttgcffff	agcagtgtac	1440
cgcattgttc	accatgtact	tcaagctcg	aagcaaaatc	agttccctgt	tagcatttgc	1500
ggagaggccg	cagggcagct	cagtctgact	ccttttttta	taggccttagg	agttcaagag	1560
ctctcagtag	ctatgcctgt	aatcaataga	cttcgaatc	atatgcctt	gctagagtt	1620
aactccgtcc	ttgaaattac	agaagccctt	ttacaagcta	aaacatgctc	tgaagttgaa	1680
gaacttttaa	atagaacaa	caaaatcaca	tcataaa			1716

## Seq ID 21

atgcgacaag	aaaaggatag	tttaggaatc	gtagaagttc	ctgaggataa	gttatatgga	60
gctcaaacta	tgcggtctag	gaatttttt	tcttggggac	ctgagttat	gccttatgag	120
gtaatacggag	ctctcgatg	gattaaaaaa	tgtgctgtc	aggcgaatca	agatttagga	180
tttttggatt	ccaagcattt	cgatatgatt	gttgctgtc	ccgatgagat	tttagaggg	240
ggttttgaag	agcattttcc	tttaaaagtt	tggcagacag	ggagcggcac	acaatcta	300
atgaatgtga	atgaggtgat	tgcgaatctt	gccattcg	atcacggagg	ggtgttaggc	360
agtaaggatc	ctatccatcc	taatgatcat	gtgaataat	cccaatcg	caatgtatgtt	420
ttccctacag	caatgcatac	cgctgtgt	attagttaa	aaaataagtt	aattccagct	480
ttagatcata	tgattcggt	gttagatgt	aaagtggaa	aatttcgtca	tgtgtaaag	540
ataggacgga	cccatctt	ggatgcgg	cctatgacgt	tgggtcagga	atttctgg	600
tatagcagtc	aattgcgtca	ctgcttagag	agtatagcat	tttcttttagc	tcatttat	660
gaacttgcga	ttggagctac	tgctgttaggg	actgggttga	atgttcc	agggttcgt	720
gaaaagatca	tccatttattt	aaggaaggaa	acagatgaac	cgtttattcc	agcttccat	780
tatTTTcag	cactgtctt	tca	cgatgtatgt	ccatgggtc	tttagcaact	840
ttagcatgtg	ctttaactaa	gatacgatcg	gatttgagct	ttttaggtt	aggaccagg	900
tgtgggttgg	gtgagttattt	tttccctgaa	aatgaaccag	gatcttctat	catgcctggt	960

aaagtcaatc	ctacgcagtg	tgaagctctc	caaatggttt	gtgctcaagt	tcttggaat	1020
aatcaaacag	tgattattgg	aggaagtcga	ggaaattttg	agcttaatgt	gatgaaggcct	1080
gtgatcatct	ataatttcct	gcagtcgtg	gatctcttt	ctgagggat	gagggcttc	1140
tctgaattct	ttgtgaaagg	attaaaagta	aataaaagctc	gttacaaga	taatatcaat	1200
aattcttga	tggtggttac	agcttttagct	cctgtattag	gttacgacaa	gtgtcgaaa	1260
gcagcactga	aagcatttca	tgaatctata	tcttgaagg	aggcgtgtct	agcttggga	1320
tatcttctg	agaagaatt	tgatcgttt	gtggttcctg	agaatatgg	ggaaaccat	1380
tag						1383

## Seq ID 22

atgggactat	atgatcgtga	ctatatacaa	gattctcgag	tgcagggAAC	ttttgcttca	60
agagtctatg	ggtggatgac	agcaggccta	atcgtaactt	catgttgtgc	cctgggtctt	120
tatTTTCTG	gattatacag	aagtttattt	tcttttgg	gggtgtgggt	tttcgctacg	180
ctaggcgtgt	cTTTCTTAT	caactctaa	atccagacac	tatcggttcc	tgctgttaggg	240
ggcTTTCC	ttctctactc	aacattagaa	ggaatgtttt	ttggAACCTT	acttcctgtc	300
tacgctgctc	aatatggcg	aggggtgatc	tggccgctt	ttggatcagc	agccttggta	360
tttggcttag	cagcagtata	cggagcgtt	acaaaaAGCG	atcttactaa	aattagtaag	420
attatgactt	ttgctttagt	aggacttctg	ctagtgactc	tagtctttgc	tgtggTTcg	480
atgtttgtat	ctatgcctt	aatctactta	ttgatttgct	atcttagggot	cgtcatctt	540
gttggattga	cagctgctga	tgcgcaagca	attcgtcgga	tttcttctac	tatagggat	600
aacaataacct	tgagttacaa	actctcttgc	atgtttgctc	ttaagatgt	ttgcaatgtc	660
atcatggtat	tttggtatct	gtcgagatt	ttctcatctt	caggaaaccg	agactaa	717

## Seq ID 23

atggtagcga	aaaaaacagt	acgatcttat	aggcttcatt	tttcttcattc	cgtaatagta	60
gcaatattgt	cagcaggcat	tgctttgaa	gcacattcct	tacacagctc	agaactagat	120
ttaggtgtat	tcaataaaca	gtttagggaa	cattctgctc	atgttgaaga	ggctcaaaca	180
tctgtttaa	agggatcaga	tctgttaat	ccctctcaga	aagaatccga	gaaggTTTG	240
tacactcaag	tgcctcttac	ccaaggaagc	tctggagaga	gttggatct	cgccgatgtct	300
aatttcttag	agcattttca	gcatttttt	gaagagacta	cagtattttg	tatcgatcaa	360
aagctggttt	ggtcagattt	agatactagg	aatttttccc	aaccctacta	agaacctgtat	420
acaagtaatg	ctgttaagtga	gaaaatctcc	tcaagatacca	aagagaatag	aaaagaccta	480
gagactgaag	atccttcaaa	aaaaagtggc	ctttaagaag	tttcatcaga	tctccctaaa	540
agtcctgaaa	ctgcagtagc	agctatttct	gaagattttgc	aatctcaga	aaacatttca	600
gcaagagatc	ctttcaggg	tttagcattt	ttttataaaa	atacatcttc	tcagtctatc	660
tctgaaaagg	attcttcatt	tcaaggaatt	atctttctg	gttcaggagc	taattcaggg	720
ctaggTTTTG	aaaatcttaa	ggcccgaaa	tctgggctg	cagtttattc	tgatcgagat	780
attgtttttt	aaaatcttgc	taaaggatttgc	agttttat	cttgcataatc	tttagaaagat	840
ggctctgccc	cagggtaaa	cattttttgc	gtttagacct	gtgatgttac	tctcactgtat	900
tgtgccactg	gttttagacct	tgaagcttta	cgctctgtt	aagatttttc	tcgtggagga	960
gctgtttca	ctgctcgcaa	ccatgtttgc	caaaataacc	ttgcaggtgg	aattctatcc	1020
gtttaggca	ataaaaggagc	tattttttgc	gagaaaaata	gtgctgagaa	gtccaatgg	1080
ggagcttttgc	cttgcggaa	ttttttttac	agtaacaacg	aaaacaccgc	tttgcggaaa	1140
gaaaatcaag	cattatcagg	aggagccata	tcctcagcaa	gtgatattga	tattcaaggg	1200
aactgttagcg	ctattgttatt	ttcaggaaac	cagtctctaa	ttgtctttgg	agagcatata	1260
gggtttcacag	atTTTGTAGG	tggaggagct	ttagctgtc	aaggagcgtt	taccttaaga	1320
aataatgcag	tagtgcatttgc	tgttttttttgc	acttcttttttgc	tttttttttttgc	tttttttttttgc	1380
gcaggactgt	ttgtatcttca	cgaaaaacatttgc	cgaaaaacatttgc	cgaaaaacatttgc	cgaaaaacatttgc	1440
gctcttaactgt	gagggtgttttgc	aagtgttttttgc	gataagggttttgc	taattttttttgc	taattttttttgc	1500
gaaattcttgc	tttgcatttttttgc	cgaaatgttttttgc	aatcaggatgttttgc	gagccatttttttgc	tttttttttttgc	1560
cgatctaatttgc	ctaaggatgttttgc	acaaaaggatgttttgc	tcttttttttttgc	tcttttttttttgc	tcttttttttttgc	1620
tccggagcttgc	tcacttttttgc	aaaaaataatgttttgc	gttttttttttgc	tttttttttttgc	tttttttttttgc	1680
gaagattatgttttgc	ctgggtggagg	cgcttttatgttttgc	gggcataatgttttgc	tttttttttttgc	tttttttttttgc	1740
ggaaatatttgc	aattttatagg	aaatataatgttttgc	ggaagtacatgttttgc	tctggatagg	agaatatgtc	1800
gttgggtgggttgc	cgattctcttgc	tactgtatagatgttttgc	gtgacaatgttttgc	ctataataactc	tggatgttttgc	1860
gttttttttttttgc	gaaacaaagg	ccaatgttttgc	gttttttttttgc	atgtatgttttgc	tttttttttttgc	1920
gctcccggttgc	aatcagatgttttgc	tttcatctataatgttttgc	aataaaagacgttttgc	agaagagcct	taatgttttgc	1980
agtcatggatgttttgc	atcattatgttttgc	ttctaaaactgttttgc	gttgcatttttttgc	tttgcatttttttgc	tttgcatttttttgc	2040
gaagaacatcttgc	ctgttgcatttttgc	ttcgacagatgttttgc	attcgttttttgc	gtggggccat	tctatgttttgc	2100
catatcttgc	tttacagatgttttgc	tacaggaaatgttttgc	ctgagatttgc	ctggggacat	tttttttttttgc	2160
gaagagtcttgc	ctactgtcggttttgc	tgatttttagcttgc	atcgtaggttttgc	tttttttttttgc	tttttttttttgc	2220
aatgaagtttgc	atgtttgcgttttgc	taacccaaatgttttgc	gttgcatttttttgc	ctgataacgt	gacttcaaatttgc	2280
gttggatttttgc	cagggggaggc	tatttttagcttgc	aaaaaagtag	atatctccgc	gaaccactcg	2340
tttgcatttttttgc	tttgcatttttttgc	tttgcatttttttgc	ccgtttgcgc	tttgcatttttttgc	tttgcatttttttgc	2400

tca	gtaaaca	ttacggacaa	tggctggca	gtatcattct	ctaaaaatag	aacacgtt	2460
ggcggtgctg	gagttgcagc	tcctcaaggc	tctgtacga	tttggaaa	tcaggaaac	2520	
atagcattta	aagagaactt	tttttggc	tctgaaaatc	aaagatcagg	tggaggagct	2580	
atcattgcta	actcttctgt	aatattcag	gataacgcag	gagatatcct	atttgtta	2640	
aactctacgg	gatcttatgg	aggtgctatt	ttttaggat	cttgggtgc	ttctgaaggc	2700	
agcaacccac	gaacgcttac	aattacaggc	aacagtgggg	atatcctatt	tgctaaaaat	2760	
agcacgcaaa	cagccgcctc	tttatcagaa	aaagattct	ttgggtggagg	ggccatctat	2820	
acacaaaacc	tcaaaattgt	aaagaatgca	gggaacgttt	cttctatgg	caacagagct	2880	
cctagtggtg	ctgggtc	aattgcagac	ggaggaactg	tttggtaga	ggctttgg	2940	
ggagatatct	tat	tttgaagg	gaatataat	tttgatggg	gttcaatgc	3000	
tgcgggat	actcaaaaat	cgtagagctt	tctgtgtt	aagataaaaa	tattat	3060	
caagatgca	ttacttatga	agagaacaca	atcgtggct	tgccagataa	agatgtcagt	3120	
ccttaagt	ccccttcatt	aatttttaac	tccaagccac	aagatgacag	cgctcaacat	3180	
catgaaggga	cgatacgg	ttctcgaggg	gtatctaaa	ttcctcagat	tgctgtata	3240	
caagaggaa	ccttagt	tttacaaaaac	gcagagctt	gggtggcagg	actttaaacag	3300	
gaaacaggaa	gttctatcgt	attgtctcg	ggatctt	tccgtattt	tgattcccag	3360	
gttgatagca	gtgcgcct	tcctacagaa	aataaagagg	agactctt	ttctggcgg	3420	
gttcaaatta	acatgagct	tcctacaccc	aataaagata	aagctgtaga	tactccagta	3480	
cttgagata	tcataa	gtactgtat	ttgtctcat	ttgttcc	gcaagacgg	3540	
actcttcctc	ttcctct	aattatcatt	cctaaggaa	caaattaca	ttcta	3600	
atagatctt	agattataga	tcctaccaat	gtggat	aaaatcatgc	tcttcta	3660	
tctcataaag	atattccatt	aatttctt	aagacagcg	aaggaaatgac	agggacgcct	3720	
acagcagat	cttctctatc	taatataaaa	atagatgtat	cttac	gatcacacca	3780	
gcaacgtat	gtcacacagg	agttgg	gaaagtaaaa	tgaagatgg	aagactt	3840	
gtcggttggc	aacctacggg	atataa	gttctt	gagaaggggc	tctagttt	3900	
aataatctt	ggagt	catta	tacagatctt	agagctt	agcaggagat	3960	
catacgtat	ctcaaa	aaat	ggagtt	ttctcgacaa	tttgc	4020	
gggttgg	tttgc	tttgc	tttgc	atgtctggg	atcaggatta	4080	
gggtatccc	tagg	tttgc	tttgc	tttgc	tttgc	4140	
tcacagt	tttgc	tttgc	tttgc	tttgc	tttgc	4200	
tat	tttgc	tttgc	tttgc	tttgc	tttgc	4260	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4320	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4380	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4440	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4500	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4560	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4620	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4680	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4740	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4800	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	4830	

## Seq ID 24

atg	taatca	agctatggcg	agctactt	ta	gaggatgt	atacatttct	tgtgggtgc	60
ttgt	ctaa	agt	tc	tg	caagtt	gaagggtgg	acac	120
aac	cagg	gtt	ttt	tc	caat	tttgc	tttgc	180
tat	ctt	ttt	ttt	cc	at	tttgc	tttgc	240
cg	gtt	ttt	ttt	cc	at	tttgc	tttgc	300
gtt	aa	ttt	ttt	cc	at	tttgc	tttgc	360
gtt	ttt	ttt	ttt	cc	at	tttgc	tttgc	420
aa	gg	ttt	ttt	cc	at	tttgc	tttgc	480
aa	gg	ttt	ttt	cc	at	tttgc	tttgc	540
gg	ttt	ttt	ttt	cc	at	tttgc	tttgc	600
ttt	ttt	ttt	ttt	cc	at	tttgc	tttgc	660
aa	ttt	ttt	ttt	cc	at	tttgc	tttgc	720
ca	ttt	ttt	ttt	cc	at	tttgc	tttgc	762

## Seq ID 25

atg	atcaata	aagaatt	ta	tgtt	tttgc	tttgc	tttgc	60
at	at	tttgc	tttgc	tttgc	tttgc	tttgc	120	
at	at	tttgc	tttgc	tttgc	tttgc	tttgc	180	
tg	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	240	
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	300		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	360		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	420		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	480		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	540		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	600		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	660		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	720		
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	760		

ggtcctcgttgg	gacaggggatt	aggcaatgtc	gtcggtatgg	cgtctcttat	gaagatgttg	420
gaatcccgat	tcaatcgccc	aggacatgag	atttttaacg	aaaaaatcta	ttgtttggca	480
ggggatggct	gttttatgg	gggagtcagc	cacgaagt	gtagcttgc	aggcttta	540
aatttaata	atcttgttgt	catctatgac	tacaataatg	ttgttctcg	tggatatctt	600
aatgaaatta	gtgttgagga	tacaaaaaaaaa	cgttttgaag	cctatggctg	ggatgtatata	660
gaaattgtatg	ggtatgattt	tacccatatt	catgagacat	tctcgagcat	caaacggggg	720
caggaacgtc	ctgtatttagt	gattgcacat	acaattattg	gtcatggtc	gcctaaggaa	780
gggacaataa	aggctcatgg	ttctccctta	ggagtgcag	ggactcatga	aacaaaacag	840
tttggcatac	tccctgaaga	aaagttttt	gtccctctgt	cagtaaaagaa	cttctttgtt	900
cataaaatac	aagaagatcg	aaaagcacag	gacaaatggc	tggatgaagt	tcgtgtttgg	960
tcaaaaacagt	tcccagaatt	acacgaagaa	ttcgttgcgt	tgaccctctca	taagttacct	1020
aaaaacttag	aatcccttgtt	gcagagtgt	gaaatgcacag	actctatagc	tggccgggt	1080
gcttcaaata	aactgatcca	agtatttagt	cagcacattt	cttattttgtat	tggagggtcc	1140
gcagatctt	caagctcaga	tggaacttgg	attgcgaatg	agaaagtcat	ccatacgtat	1200
gacttctctg	gaaggaacat	taaatacggc	gttcgtgagt	ttggatggc	cacaatcatg	1260
aatggtttag	cttatacgcc	ggtatttcgt	ccctttgggt	gaacatttt	agttttttct	1320
gactatatgc	gtaatgcatt	tcgcttggcc	gcattatcta	aattaccagt	catctatcaa	1380
tttaccatcg	attctatatt	tgttggagaa	gatggaccta	cgcattcagcc	tgttggacaaa	1440
ttgatgtctt	tgccgcgcgt	ccctggattt	tatgtatatac	gtcctggccg	tgttaatgaa	1500
gttagggag	cgtggattgc	aggattaaag	cacacaggtc	ctacagtcat	tgttggtcg	1560
cgacaagcat	tgccccacact	gcctgctgcg	catcgccctt	ttaaagatgg	ttaggtcg	1620
ggtgcttata	ttgtcttaaa	agagtcaagga	gaaaaaccag	actataactt	cttcgctaca	1680
gggtcagaag	tttcttttagc	tctttctgt	gtctaaagaac	tcgaacactt	ggataagcaa	1740
gtgcgtgtat	tttttttccc	ttgttgggag	cttttgcag	ctcaagatgt	ggactacaaa	1800
cagagtattt	taggcggaga	tcttggaaatt	cggtgtctcta	tagaagcagg	atctgttttgc	1860
gggtggatata	agtatatcg	atctgaaggt	ttagctatcg	ctatggatag	attcggatatac	1920
tcaggagctt	ctgtatgtat	atcagaagaa	tgtggcttta	ctacagagca	aatcccttcag	1980
aggattctct	ctcaatag					1998

Seq ID 26

atgtctacca	tgaaaattt	tccacatgg	ggtgtatgt	gaggatgctc	gtttcctcag	60
tccaaatttt	ctgactcctt	aaagaaaaag	gaagaactcc	ttcatcgat	attcgctcct	120
tttagttccct	cggatatgtat	tgctccatc	atccccatgtt	ctccctctt	aagaggaaga	180
aataaaatgg	aattctcctt	tttcaaact	tatgaaggag	aaaaaagttt	aggattcatc	240
agctctacaa	aacccaaagaa	aggaattcca	gtgactacat	gtctgcttat	ccatgagcag	300
actatggata	tttaaaact	caactcgca	tggtgggata	agcacccaga	gcttatggcg	360
tacttcccc	ctaaaaacaa	aggctcgta	tgccacactca	ccgtccgtac	ggggagcccg	420
cagcaaaact	ttatggtgat	cctaacaaca	tcaggaactc	cagaatata	gttaaaacgaa	480
gcctgtatag	atgaatggaa	agagattctc	ctatcgctt	ctctaaacat	agcatcgatc	540
tattgggaag	aaaaggtagc	tgcacgtggg	atttctacat	attatgaaac	taaactgcta	600
tacggagccc	cctcgataca	gcaaaaactg	tccttaccta	gtgacggtaa	ctctgcctct	660
tttagtttgtc	gtcccagaag	tttcttccaa	cctcagatta	ctcaggcagc	gaaaattata	720
gaaactgcga	aagagtttat	aaaccoccgag	ggttcgaaaa	cgcttcttga	tctctattgt	780
ggagcaggaa	ctatagggtat	tatgctctt	ccctatgtca	aaaatgtat	tggcggttag	840
attattcctg	atgctgttagc	ttcggtctag	gagaacatca	aagcgaataa	caaagaagat	900
tgcgtagaag	tctattttaga	agatgcggaa	gcgttctgca	aaaggaatga	aaattgtaaa	960
gctcctgtatg	tcatttattat	tgatccccca	cggtgtggta	tgcaaagtaa	agtacttaaa	1020
tatattttac	gtataggatc	tccaaaaatt	gtctatata	cttgcacacc	taaaacacag	1080
tttcaagagt	gcgcggacct	aatctctggg	ggatatcgca	taaaaaagat	gcagcctatt	1140
gaccaatttc	cctattcgac	gcacccatgg	aatatttattt	tactagaaag	agagatcgat	1200
ctcttag						1206

seq ID 27  
atgaaat

atgacatcag	gagttagtgg	aagttaagt	caggatccca	cattggctgc	gcaattggca	60
caatccctc	aaaaagcagg	aatatgttcag	agcggttcacg	atactaagaa	tgtacaacaaag	120
caaggggctc	aagcagaagt	cgctgttgg	ggctttgagg	atcttcatca	agacgcttca	180
gcgcaaagt	caggaaaaaa	agaagctaca	tcttcaacta	ctaaaagtag	taagggagaa	240
aaaagcggaaa	aatcttggaa	atcttaatcc	tcaacttcgg	tagcaagcgc	aagtgaaact	300
gcaacggcac	aagccgtaca	aggtcctaag	ggattaagac	aaaataatta	tgactcacc	360
agccttccta	ctcttgaggc	acagaccatc	aatggtattt	tactttaaaaa	aggcatgggt	420
acgttagcac	tcctcggtt	agttatgacc	tttatggcca	atgctgccgg	agagtcttgg	480
aaagcttcat	tccaaatcaca	aaacccaagcg	atccggtcac	aagtcaatc	cgctcctgct	540
atggagaaag	ctattaaaag	gcaaggcgaac	catcaagcat	cagctacaga	agcacaggca	600
aaacagtcc	tgatttagtgg	tattgttaaac	attgttaggt	ttacagtttc	tgttaggagcg	660

ggtattttct	ctgctgcaaa	aggagctacc	tcggcttaaa	aatctgcttc	cttgccaaa	720
gaaacaggtg	cctcagctgc	tggaggtgct	gcttccaaag	ctttaacttc	tgcaagttct	780
tctgttcaac	agactatggc	ttcgactgcc	aaggcggcaa	caacagcagc	gagttotgcg	840
ggatcagcag	ccacccaaagc	tgcagggAAC	ctaaccgatg	atatggccgc	agcagcttca	900
aaaatggcct	ctgatggagc	ttcggaaagct	tcaggaggac	tctttggcga	agtcttaaat	960
aaacctaact	ggtctgaaaa	agtctccaga	ggtatgaacg	tagtggaaaac	tcagggagcgc	1020
cgtgttgcatt	catttgcagg	aaatgcctt	tcttcctctta	tgcaaattag	tcaattaatg	1080
catggactca	cagggctgt	tgaaggctt	tctgcggggc	agacaggaat	agaagtcgcc	1140
catcatcagc	ggtagcagg	acaagcagag	gctcaagcag	aagtcttcaa	acaaatgtct	1200
tcggtttatg	gtcagcaagc	aggacaagca	ggacaattac	aagagcaagc	tatgcaatca	1260
ttaatactg	ccttacaaaac	actacaaaat	attgcggact	ctcaaacaca	aacaacatct	1320
gctatcttta	attaa					1335

Seq ID 28

Seq ID 29

atgtttcgtt	gcataattgtt	tggtaaaaa	ctactcacgt	gtttttcttc	tggcgaaaa	60
tttatattact	tattctgttc	ccatgatTTT	tctataggGC	ctaaggaaaa	atcacgatCC	120
gtgtggattg	aggaagaaaa	agagttcacG	gattccgtat	tacatcatCT	gccatcgcaa	180
catcagcatt	tgcatattct	ttgtttccaa	gggtttttac	tacagaagca	acaaaagtTT	240
tctcaaggcag	aaaagatttt	ctctaaagtt	tacgacgagg	ctcaggacgg	tccttttctt	300
ttaaggagg	aaatTTtagg	atcccgaCTG	atcaacagtT	tttttttaga	aaaaacagac	360
gtcatggaga	ccattttttg	tcttctgaat	cagcgcgtgc	ccaactcccc	ttactaccac	420
ttatTTaagg	ctctagatgt	ctataagcaa	aagctatacc	gtgaggTCat	agagcaacta	480
gcctactggc	aagaagagaa	aactcgaGCG	cttgctcTT	tattgaatat	aagtattgaa	540
cagctgctaa	cagatTTTCT	gttagattat	atttctgcgc	attctctgtat	agaacagaaa	600
atgttccccg	aaggcagagt	aattcttaat	cgcAatATCA	ataggTTATT	aaaacacgaa	660
tgtgagtgga	atgcgaagac	atacgatcgt	attgcgattc	ttcttagccg	gagttatttt	720
ctagagttgg	tagaatctaa	gtctgcagat	atttatttttG	attattatGA	gatggtgctt	780
ttctatctca	aaaagatcta	tatTTtagag	cagtgtccTT	atgcagaact	tctccccqag	840

gaagagcttg	tttcctttagat	tatggAACAC	gtgttatcc	ttcctaaAGA	taaatttat		900
ccttaattc	agtcctaga	gatgtggcag	aacGATTATG	ttcacccAA	tagttctta		960
gtagttcaga	tattggaga	ccgcTTTCT	acacatATG	aaggGGCTAT	tcggtttgt		1020
gaggctttag	tttcttctc	tggattggaa	gaattacATC	agcaAAATTAT	taccacttt		1080
gaagagctgc	tttcaataaa	agtacAGCAG	ataaaaACTG	aaggAGCTAA	acaatGTGTT		1140
gccctacttc	atattttgg	tccttcttat	tccattAGT	aaaaattAGC	tctttcttcg		1200
gatacattac	aaaatatagt	ttctggggac	gacgAGCAGC	atacaAAACT	ccgcaattac		1260
ctagatctt	gggaAGCCAT	acagtCTTA	gatattGATC	gccaACAGCT	cgttcatcac		1320
ttagtttatg	gtgAAAAGA	tctttggaaa	aaaggAGGAA	atgtatggaaa	ggcattGAAC		1380
cttcttcagc	tggtcttgc	gtttacaAGC	tacgatATAg	aatgcgAAAG	tgttgtgtt		1440
cttttataaa	aacaggCGTA	taagcaAGCA	ctgtctccc	atGCCATTGC	tcgtctttta		1500
aagtttagaa	aatttataATC	ggaAGCgAT	atccctcta	tagtgattAG	tgaggCTGAG		1560
aaggCCAATT	tcttagcaga	tgcTAATAT	cttttgc	atgaAGACTA	tgacAAATGC		1620
tatttgtata	gcATGTGTT	gactaAGGT	gccccCTCC	ctcaatCCTA	tcgcttagca		1680
ggtttatGCC	tgatggaaaa	taagcgttac	gacgAGCTT	tagaattttc	ctgtatgCTC		1740
tcacccaata	atagtatcaa	cgactataAG	acgcAGAAGG	cattAGCATT	ttgccaaaaaa		1800
catcaatcta	aggaccgAGC	tgccTCTTAG					1830

## Seq ID 30

atgttggca	aagaAGAAGA	gtttacgtgt	aaacAAAAGC	agtgtttgtc	acattttgtt		60
accaatctga	cgtccgatgt	attgcttta	aaaatCTTC	cagaAGTCgt	taaggAGGCT		120
ttatTTCTA	aataCTCCC	ttcagTTTA	ggTTTGCAG	cactTTTGT	aaaAGAAATT		180
ctatctaATG	aagaggATGG	agatgtttgt	gacgAAGCCT	atgactTCGA	aaccGATGTA		240
cagAAAGCTG	cggactTTA	ccaaAGGGTT	cttgataatt	ttggggatGA	ttctgttagGA		300
gagCTTGGCG	gagcccACCT	ggCTATGGAA	aatgtCTCTA	tttggcTGC	taaAGTTTA		360
gaggatGCTC	gaattGGCGG	atccccGCTA	gaaaAGTCCA	caagataACGT	ctattTCGAT		420
caaaAGGTAC	ggggGGAGTA	tttatattAC	cgagacccta	ttttgatGAC	ttcggcTTT		480
aaagacatgt	tttgggtac	ttgtgatTTT	ttatTCGATA	cctattCTGC	ttaatCCCT		540
caagttcgtg	cctatttGA	aaaACTGTAT	cctaaAGATT	ctaaaACACc	cgcataCTGCC		600
tatGCCACAT	cattacGAGC	taaAGTTTA	gattgtatac	ggggacttCT	tcctgcggca		660
actttgacaa	atcttagatt	tttCGGTaac	ggtaggtttt	ggcaAAATCT	gattcacaAG		720
ttacaaggTC	ataacCTTG	agagtTGCGA	cgTTtaggAG	atGAATCCCT	aacAGAGCTT		780
atgAAAGTTA	ttccttCATT	tgtAAAGTAGA	gccgAGCCTC	atcatCACCA	tcatcaAGCT		840
atgatGCAAT	atcgaAGAGC	tttAAAGAG	cagCTCAAGG	gacttgCTGA	acaAGCAACA		900
tttagtgagg	agatgtCTTC	ttcaccGAGT	gttcaggTGG	tatacggaga	ccctgatGGC		960
atttataAAAG	tagCTGTG	atttCTTTT	ccttattCAA	atcgTTCTCT	tacagatCTC		1020
atagactatt	gtaaaaaaaaat	gcctcatGAA	gatCTTGTAC	agatTTTGA	gagcAGTGT		1080
tctgcaagAG	aaaACCGCCG	gcataAGTCT	cctcgtggTT	tagaatGCT	agaatttGc		1140
tttgatatac	ttgctgattt	cggTgcatac	cgcgatttgc	aacgACATCG	gacgCTGACT		1200
caagaACGAC	agttactCTC	tacacatCAT	ggatACAATT	ttcctgtgGA	gcttCTAGAT		1260
actcctatGG	aaaaatCTTA	tcgagaAGCT	atggAGAGGG	cgaatGAAAC	ctataATGAG		1320
attgttCAGG	agttccCTGA	ggaAGCTCAG	tatATGTTc	ccatggCTTA	caatataACGT		1380
tggTTTTC	atgtAAATGC	tcgggCTTTG	caatggATT	gtgagttacG	ctcacAGCCT		1440
caaggTCATC	aaaattACCG	cactataGCT	acaggtttAG	tgcgAGAGGT	tgtcaAGTTC		1500
aatCCTATGT	acgaatttatt	tttcaaATT	gtagattt	ctgacatAGA	tttaggacGG		1560
ttaatCAGG	aaatGCGAAA	agaACCAACG	acctaA				1596

## Seq ID 31

cgcgtgatga	aggcagtgg	ctctcacaAG	agcaggACCT	cctctataCA	caggcAGTAC		60
agctcttatt	ctttattttA	cagcatCCTC	aag				93

## Seq ID 32

gacggagTTA	atTTTGGAAA	tctttccag	ccgtgcCCTT	actgcAGAGG	caaataTCCA		60
agtccAACTT	gcacaAGCAC	gttatCTCT	tcctcgtct				99

## Seq ID 33

ggcttacgac	ggTTTGTCAA	acgataCTCC	atagtagtat	cgAAAAGTGG	agagCCTTC		60
tgcttactca	agaaaaaaa	gatTTTTTG					90

## Seq ID 34

aacctccaa	tctgtgatag	aagtccAGA	ttcagAGGGG	attgcAGAGA	cgaggatCTC		60
tgcggAAAGAA	atcgatacga	ggCTTCCCT	gacgacaAGA	cagaAGGTCA	tctttGCTCT		120
tgcgacACTC	ttgctcttag	caagtATTGC	tgccTTCTATA	gtcacGGGAT	ttggTGGATT		180
gacagtcatg	caagttCTCC	ttgttgcTT	tgtaggatCG	gcggTTGCTT	ctgtAACACT		240

ccctatggtt tcctcaggat ttcctacgt cgcttaccaa ctgaaagcaa gattgaatat cag	300 303
<b>Seq ID 35</b>	
tttttcctg tgttgccggg attattacta ggtcctcctt tacctcagat gtcgttcaga ttg	60 63
<b>Seq ID 36</b>	
tttttcataa aatattctct ttcaaacgga tatgggattc aaaaatatct gcaaacaagg ctctcagcta tacctgaatg gatTTTCC ggaacgaata ctagctcgaa aattaaaaaa ctgtgcgaag agctatccc gaactgctct taccatagaa gtactggtat cctcggctt aggagctct	60 120 180 189
<b>Seq ID 37</b>	
tgcagctact ctgtttactc actatggagc ctccataaac ttttgatgct gatgaardca gaaaagaaaa aatcaaaaatt ctcaacgta tctcaccatt ttcagaaggt tcttcgattg tccgaggaca atatggtcca ggaacgggtc aaggagtctc ggtccttgc tatcgtgaag aagagaatgt tgacaaagat tcccgag	60 120 180 207
<b>Seq ID 38</b>	
gcacaaggcgt tcgggagcct actcctcagg atgcta	36
<b>Seq ID 39</b>	
gagctactca tttcctacca gagaaaaaaca agctcagcta ttggaaaaaa gaactttacg accagctcgc agtgt	60 75
<b>Seq ID 40</b>	
gaaggaagag aagatcttcc atcagcactt aggaaaggca gccccacaag cggcaacagc aacttcagga gtgcagccctt ctgcggatcc tggtgc	60 96
<b>Seq ID 41</b>	
cccttagga gtacaacaaa cacctcccag tcaagtccctc aatgggattt cactcatcct atctatTTTGTGTTCC ccacggaggt ggctatgt	60 99
<b>Seq ID 42</b>	
gctccccaaag cccggggta caccaagatc agaggttac gaaatcgac tcgcgttgc	60
<b>Seq ID 43</b>	
ggacgcttac taaaacagtg tatgctatca agcttgcgc aatggctggc tatactacaa ttatttctca tcgcttagga gaaactacgg acactacgt tgcatgtt gctgtgcct tcaacgctgg tcaaataaa acaggcttt tatcagctt tgagcgtgtt gcaaaataca atagactcat gaaaattgaa gaagagctt gatccgaagc aatTTTcaca gattctaatt tatTTTCTTA CGAGGATTCTT GAGGAATAGA gggattttt ctatTTCTAT CTTATCTCCA aatcaagaat acatcgac tctatggcc ttatTTTC	60 120 180 240 300 339
<b>Seq ID 44</b>	
agcacaaatc caacagttgc tctcgatca atatttgatg caaaaactac aaaatgtccca	60
<b>Seq ID 45</b>	
accgacatac tcgtcaaatt catataaaac atcttccac ccctgtggag aggtatgtc gtaccccgca gcaaaaatata gacaagtatc tacacacacg ccaatggaa tttgatTTT caaattctga acgaggttac ccaatttttca aaagttactc ccaat	60 120 165
<b>Seq ID 46</b>	
tcttctcgct gtacacaacg agaaattgct gggaggagaa cggtaaacac accaaagcca aagagatgtt tggggagc	60 78
<b>Seq ID 47</b>	
attgatgccca cccagatcaa ccttaatgcc tcccaagttt acattcacat taggaaccac agtagctcctt actggagtgc caggacctgt atgagacgtc gagttagccc ctccacctgg agtttcatTTT ataaaggaga agtctggagc tggggatgtt ttccagttaa tgcctttcaa gcccccaaca tcatccaaa tggacctgt ttctactttt gctccacgac gccatgcaga gggtgtatTTT CCAACTACTAG ATTCTTGTG ATTCCAAGGA CGTAGACTA CAGCAGTTT aaatttcatg ctgagcatca gatgattgtt attccctgtt gctcccgagc gctctccat	60 120 180 240 300 360

tgttagtttt acgcgtcccc tcca	384
<b>Seq ID 48</b>	
gcccttttat cacgagcttg tgtggcatca atcataccag ctcgtaagtc cgcatcaatc gcccattgt tacctggcat cgcatccaaat cggaatcggg cagcaacttc ggcaacacgc tcggcaccct tagttaactac gataaac	60 120 147
<b>Seq ID 49</b>	
aataaggtaa ttacaggatc atggcgagtg ggagcttgtg agagcatgga aaccagaaaag ccacctaataat gcttggaaaaaa aaaggctcgat agggagaaaag ccgtaaacat agagacgata aaggtaaccg cagaaggaaa atcc	60 120 144
<b>Seq ID 50</b>	
ggcatctctg tgatgatgat gctctcacga tgtttatctt cattctcttc tacatgcaga cgagctcgaa cttaatctt tcctcgctt gtatgtatacg tggagcgaat tccttcagaa cccgagataa ttccctctgt agggaaatca gggcctggca tgacttgtaa aatctcatcc acagaagcct gtggatttgc aagcagaaga agtgtactt ctataagtcc ccctaaatttgc tgtgggggggattattcgatc catcccaaca gcaattctg aagaaccatt gcaaagaaga ttcggaaatt tagaaggaaa aactacaggc tctgttttgc tttcatca	60 120 180 240 300 348
<b>Seq ID 51</b>	
atggcagaa ttatctccgt catgttgcgc gtcaccgt gtgagctgca tagtgaacttgc atagatcccg acttgggttga gttaaccac aggctcaata tctgcataatc tgctgaagtc aggggtcgcg ttacgactca cacttttaga ggtgatagct gcaacatgag tttcaattgt agtgttaggg gcaacgtaat aaccattccc aggataatac gtatagagat tgcgcctg acatccagtt ttctataat aactaaatgt aagcgcatac cgagcagact gaggatca aatattatttgcatactggag ttgcgatc gtcgtcttta gaatagatataaaaccgtc agagagtgtatcgtactaa gttgagaacc ttccgcagac acattaccct tcacaataaaa ttcacatggaa gaactcgatc tttc	60 120 180 240 300 360 420 444
<b>Seq ID 52</b>	
agtgcgttacttccatc aatctctgtg agttttcaaa aatacgcaga ttttatagca cctctgaact ggagcttacg caccagaagg gcgttcaacc cagtagaagc cgccctcatt cgatttcac attcttcaag agttaggcac gaaatgttacttgc ttccagaaat aaggaactca	60 120 180
<b>Seq ID 53</b>	
atgccttggaa ttttctataa actttcaat ataaacatttgc gggttattaa aaccggcttc ggcttctgca cgtgcgcag aaaacgctct atagaatttgc tcctttctt taacaatacg aatttcttcc ccccccacctc cagcaacggc ttaataaca ataggaaac ctattttttc agctattttgc	60 120 180 189
<b>Seq ID 54</b>	
attccatgt ctccataga aaccccttct tcaccgacaa ctccatatacg ttgcogatt tctgaacctt tctctagaaa ctgtgtgtct ttttccacag caccacccca gcctgaaacc ttctcttcta aaatttgcgc tacctgggttc aaatattttgc accaagaaaat caaagggtct atgaaggat acctacgtgc gtcagctgt gctttgaaa gaccacagaa cgctccact acagctaatgt tagat	60 120 180 240 255
<b>Seq ID 55</b>	
ggagaccttg aacattataa acacatccat ggacctttttt caaaatcaag ccaccatggc aaacgtcata agcgcacaa ttatthaatg ttccatcactgt gtgcataatg gactctatgc ggtgatcagg aatca	60 120 135
<b>Seq ID 56</b>	
agggtatctt tcaatgcatc cccgcccgtc acaacaagtc gttagggactc caaacaggaa ttttgtttttt ttgcgtttt cagaata	60 87
<b>Seq ID 57</b>	
tcaataaaacc cactagcacc acagcgatca ttaggccctg ccataataa ccagctagaa gaatggccga tacaggacac ttgcatttca cgagacccata agcacttgc ctccacaaac acatccgtgt catatagaaa tgcttctgtatctttttt gtaattccctc ttatcacgg actaaaaata tcccaataact agatccaaa tgcgtttt ttacaatcat agggaaagaa aatgtctcta taagattc	60 120 180 240 258

Seq ID 58  
 ccacttaggtc ccgcaccaat aacaacacaa tcaaattctt gggcatatt ctcactcact  
 gtaatcaaga tttcaaaaag aaccccccatt cataaatgca tgcatctcat taagaagagg 60  
 accctgtgct tattt 120  
 135

Seq ID 59  
 ggagaacaaac cattccgtt tcatcccact tcacagcaaa gtttgtctct gtatcatcac  
 tatataggca ccctacaatc gtcttccat cactggaaac accctctgca aaagattgca 60  
 tccctcaga aaatattcca agatcaacaa gtgcaccgtt taccacttc acagcgcc 120  
 aagacggatc ttgatccgag atcccta 180  
 207

Seq ID 60  
 gtgacatcta agtacgcttc catgcgtcca tcaattccta atccagcttc acatacacgt 60  
 aaaatagcac gcgcctcac atctcggtc acaagattcc catacgagg atacatatct 120  
 tctaagaaat accaaggagc tcctgtctct ccacaaggac gttccgaacc atctgaaat 180  
 actatgcgtt ttgaagaatc cccaggcacc cacacacgc cgccctcacc acgcacagac 240  
 tctgaaatta atcgttagtt atcccttcca ggaattgctg taggg 285

Seq ID 61  
 MVNPIGPGPIDETERTPPADLSAQGLEASAANKSAEAQRIAGAEAKPKESKTDSSVERWSILRSAVNALMSLADKLGIASS  
 NSSSSTSRSADVSDTTATPTPPPTFDDYKTQAQTAYDTIFTSTSLADIQAALVSLQDAVTNIKDTAATDEETAIAAEW  
 ETKNADAVKVGQAQITELAKYASDNOAILDGLKLTSDLLQALQSVANNKAELLKEMQDNPVVPGKTPAIAQSLVD  
 QTDATATQIEKDGNAIRDAYFAGQNAGAVENAKSNNSISNIDSAAIAATAKTQIAEAAQKKFPDSPILQEAEQMVVIQAE  
 KDLKNIKPADGSDVPNPGBTVGGSKQQGSSIGSIRVSMILLDAENETASILMSGFRQMIHMFTNTENPDQSAAQQELAAQA  
 RAAKAAGDDSSAAAALADAQKALEAALGKAGQQGILNALQIASAAVVSAGVPPAAASSIGSSVKQLYKTSKSTGSDYKT  
 QISAGYDAYKSINDAYGRARNDATRDVINNVSTPALTRSPRARTERGPETDQALARVISGNSRTILGDVYSQVSALQS  
 VMQIIQSNPQANNEEIROKLTSAVTKPPQFGYPYVQLSNDSTQKFIAKLESLFIAEGSRTAEIKALSFTNSLFIQQVLV  
 NIGSLYSGYLQ

Seq ID 62  
 MKKLLKSALLSAAFAGSVGSLQALPVGNPSDESPLLIDGTIWEAGDPDCPCATWCDAISIRAGFYGDYVFDRILKVDAP  
 KTFSMGAKPTGSAAANYTTAVDRPNPAYNKHLHDAEWFTNAGFIALNIWDRFDVFCILGASNGYIRGNSTAFNLVGLFGV  
 KGTTVNANELPNVSLNSGVVELYTDTSFSWSVGARGALWECGCATLGAEFQYAQSCKPKVEELNVCNVSQFSVNPKPGYK  
 GVAFLPLTDAGVATATGTKSATINYHEWQVGASLSYRLNSLVPYIGVQWSRATFDADNIRIAQPKLPTAVLNLTAWNPSL  
 LGNATALSTTDSFSDFMQIVSCQINKFKSRKACGVTVGATLVDADKWSLTAEARLINERAHVSGQFRF

Seq ID 63  
 MSVNPSGNSKNDLWITGAHDQHPDVKEGVTSANLGSVRTASGGRGQLLARIKEAVTGFFSRMSFFRSGAPRGSQOPSA  
 PSADTVRSPLPGGDARATEGAGRNLKKGYQPGMKVTIPQVPGGQAQRSSGTTLKPTRPAPPPPCTGGTNAKRPATHGK  
 GPAPQPPKTGGTNAKRAATHGKGPAPQPPKGILKQPGQSGTSGKRVWSDED

Seq ID 64  
 MGINPSGNRSPDDVVVRGAQGDSSSTQGTGATNSNLGAHNVTTSTSQPQVASKAKQLWQTVREFFLGKSPDSSQGASGP  
 AMQSPSGPTIRPTRPAPPPTTGGANAKRPATHGKGRAPQPPTAGSSSGSEQPTAMSSEVAKLVSELKDAVHSHEAQKV  
 LKKVSQLQTKWTDWENNRGPDYLLHGYRVIARALQQTTEQSMLIEGTSSTGVPVQAVTAKDAVTQTVRGAIKNLENP  
 KPGNDPDGVLMQVVISLGIEGPTLDGESIQNFLETRVSDFGGDDSDIDYTSIDIARLGSALDRVRENHPNEMPRIWIALA  
 RELGAAVHSHATSVRIANAGKNHTRDVVRMANESSRLLQGMKVLSVGAWANTMTVLIQDILFE

Seq ID 65  
 MKTLWHFVSKAFLSIVGLCCGVVLAFVVIPLIASSLGNGDATFVSLPDAQGEVKDLGKTAPIIAVIEMKDIASSKNTA  
 KTIQNILEGFEKAPLKDRVKGIVIDMDCPGGEVFEIDRIYSMLRFWKERKGFIYIIVNGLCASGGYYVSCAATKIYATS  
 SSLTGSIGVRSGPFFNVKEGLNRYGVESDLLTAGKDKAPMNPyTPWTSHDREERQATLDFLYGQFVDIVTONRPLLTKEK  
 LVHTLGARIFSPPEKAKQEGYIDVVGATKEQVLQDIVAVCKIEDNYRVIGSGGDWWKRVASAAAASSPLVTGMIKHDILPL  
 SHDAAYIPPLAL

Seq ID 66  
 MRPHRKHVSSKSLALKQSASTHVEITTKAFRLSAMPLKQLILEKSDHLPMETIRVVLTSHKDKLGTEVHVVASHGKEILQ  
 TKVHNANPYTAVINAFKKIRTMANKHSNKRKDRTHDLGLAAKEERIAIQEEQEDRLSNEWLPVEGLDAWDSLKTLGYVP  
 ASAKKKISKKKMSIRMLSQDEAIRQLESAAENFLIFLNEQEHKIQCIYKKHDGNYVIEPSLKGFCI

Seq ID 67  
 MAAPINQPSTTTOITQTGQTTTTTVGSLGEHSVTTGSGAAAQTSQTVTLIADHEMQEIASQDGSAVSFAEHSFSTLP  
 PETGSVGATAQSAQSAGLFSLSGRTRQRDSEISSSDGSSISRTSSNASSGETSRAESSPDLDLDSLGSERAEGAEGP  
 EGPGGLPESTIPHDPDKASILNFLKNPBVQQKMOTKGHHFVYVDEARSSFIFVRNGDWSTAESIKVSNAKTKENITKP

ADLEMCIAKFCVGYETIHSWDTGRVKPTMEERSGATGNYNHMLSMKFKAIVVYGPWNAKESSSGYTPSAWRRAKVTG  
 PIWDDVGGLKGINWKTPAPDFSFINETPGGGAHSTSHTGPGLPVGATVVPNVNLGGIKVDLGGINLGGITTNTVTE  
 GGGTNITSTKSTSTDKVSITSTGSQSTIEEDTIQFDDPGQGEDDNAIPGTNTPPPGPPPNSRLLTISNASLNQVL  
 QNVRQHLNTAYDSNGNSVSDLNQD LGQVVKNSEGVNFPTVILPKTTGTDPSGQATGGVTEGGGHIRNIIQRNTQSTGQ  
 SEGATPTPQOPTIAKIVTSRKRANSSSVLPQPQVATTITPQARTASTSTSIGTGTESTSTTSTGTGTVSTQSTGVG  
 TPTTTTRSTGTSATTTSSASTQTPOAQLPSGTRHVATISLVRNAAGRSLVQQGRSQSFPIPPSGTGTQNMGAQLWAA  
 ASQVASTLGQVVNQAATAGSQPSSRRSSPTSPRK

Seq ID 68

MKTSQFLFYKTSKNANKSAAVLSNELLEKAGYLFKVSKGVYTPTPLWRVVSMMNIIREELNAIGGQELLPLLNHAELW  
 QHTGRWEAFTSEGLLYTLKDREGKSHCLAPTHEEVICSFVAQWLSSKRQLPLHLYQIATKFRDEIRPRFGLIRSCELLME  
 DSYTFSDSPEQMNEQYEKLRSAYS KIFDRGLGLAYVIVTADGGKIGKGKSEEFQVLCQLGEDTICVSGSYGANIEAAVSIP  
 PQHAYDREFLPVEEVATPGITTIEALANFFSIPHLKILKTLVVKLSSNEEKEIAIGMRGDRQVNVLKVASKLNADDIAL  
 ASDEEIERVLGTEKGFIGPLNCIDPFFADETTSPMTNFCAGNAKDKHYVNWNDRDLPQYGDFLAEGDTCPEPNPG  
 HPYRIYQGIEVAHIFNLGTRYTDSFEVNFDQEHDQTCQCMGTYIGVGRTLAACVEQLADDRGIVWPKA LAPSITIAF  
 NGGDTVSQELAETIYHELOQSQGYEPLLDDRDERLGFKLKDSDLIGIPYKLILGKSYQSSGIFEIESRSGEKYTVSPEAFP  
 TWCONHLA

Seq ID 69

MASGIGGSSGLGKIPPKDNGDRSRSPSPKGELGSHEISLPPQEHGEEGASGSSHIHSSSFLPEDQESQSSSAASSPGF  
 FSRVRSGVDRALKSFGNFFSAESTSQARETRQAFVRLSKTITADERRDVSSAAAATEARVAEDASVGENPSQGVVPETS  
 SGPEPQLFLSPLSVKKQSGLGRLVQTVRDRIVLPGAPPDSEPLSLYELNRLSSLRQELSDIQSNQLTPEEKAEATV  
 TIQQLIQITEFQCGYMEATQSSVSLAEARFKGVETSDEINSLCELTDPQELQELMSDGSILQNLDETADDLEAALSHAR  
 LSFSLDDNPTPIDNNPTLISQEEPIYEEIGGAADPQRTRENWSTRIWQIREALVSLGMILSILGSILHRLRIARHAAA  
 EAVGRCCCTRGEECTSSEEDSMSVGPSEIDETERTGSPHDVPRRNGSREDPLMNALVGWAHKHGAKTKESSESSTPE  
 ISISAPIVRGWSQDSSVSFIVMEDDHIFYDVPRRKDGIYDVPSSPRWS PARELEEDVFGDYEVPI TS AEPSKDKNITYMTP  
 RLATPAIYDLPSRGSSGSSRSPSDRVRSSPNRRGVPLPPVSPAMSEEGSTIYEDMSGASGAGESDYEDMSRSPPRG  
 LLSESVS AVMVEAESIVPPTEPGDGESEYLEPLGLVATTKILLQKGWPRGESNA

Seq ID 70

MRFPCFGMLLPFTFVLANEGLQLPLETYITLSPHEYQAAPQVGFTHNQNQDLAI VGNHNDILDYKYYRSNGGALTCKNLL  
 ISENIGNVFFEKNCVCPNSGGAIYAAQNC TISKNQNYAFTNLVSDNPTATAGSLLGGALFAINC SITNNLGQGTVDNLA  
 LNKGGALYETE TNLSIKDNKGPII IKQNRALNSDSLGGIYSGNSLNIEGNSGAIQITSNSSGSGGGIFSTQTLTISSNKK  
 LIEISENSAFANNYGSNFNPNGGGI LTTTFC TILNNREGVLFMNNSQNSNGGAIHAKSIIKENGPVYFLNNTATRGALL  
 NLSAGSGNGSFILSADNGDIIFFNNTASKHALNPPYRNAIHSTPNMNLQIGARPGRVLFYDPIEHELPSSFPILFNFET  
 GHTGTVLFSGEHEVHQNFTDEMNF SYLRNTSEL RQGVLA EGDAGLACYKFFQRGTLLLGQGAVITTAGTIPTPSSPT  
 TVGSTTILNHIAIDLPSI LSFAQAPKIWIYPTKTGSTYTEDSNPTITISGTLT RNSNNEDPYDSDL DSHSLEKVPPLY  
 IVDVAAQKINSSQDLSTLNSGEHYGYQGIWSTYWEITITNTPSILGANTKHKLLYANWSPLGYRPHPERGEFITNA  
 LWQSAYTALAGLHSLSSWDEEKGHAASLQGIGILLHQDKNGFKGFRSHMTGYSATTEATSQSPNFSLGFAQFFSKAKE  
 HEQN STSSHHYFGMCIENTLFKEWIRLSVSLAYMFTSEHTHTMYQGLLEGNSQGSFHNTLAGALSCVFLPQPHGESL  
 QIYPFITALAIRGNLA AFQESGDHAREFSLHRPLTDVSPVGIRASWKNHHRVPLVWLTEISYRSTLYRQDPELHSKLLI  
 SQGTWTQATPVTYNALGIKVNTMQVFPKVTLSDY SADISSSTL SHYLNVASRMRF

Seq ID 71

MKS SLHWFLISSLALPLS LNFSAFAAVVEINLGPTNSFSGPGTYTPPAQTTNADGTIYNTLGDVSITNAGSPTALTASC  
 FKETTG NLSFOQGHGYQFLLQNI DAGANCTFTNTAANKLLSFGFSYLSLIQTTNATTGTGAIKSTGACSIQSNYSCYFGQ  
 NFSNDNGGALQGSSISLSLNPNLTFAKNKATQKGALYSTGGITINNTLNSASFSENTAANNGGAIYTEASSFISSNKAI  
 SFINNSVTATSATGGAIYCSSTSAPKPVLTSDNGELNFIGNTAITSGGAIYTDNLVLSSGPTLFKNNSAIDTAAPLGG  
 AIAIADSGSLSLSLASLG GDITFEGNTVVKGASSQTT RNSINIGNTNAKIVQLRASQGNTIYFYDPI TSITAALSDALN  
 LNGPDLAGNPYQGTTIVFSGEKLSEAEEADNLKSTIQQPLTLAGGQLSLKSGVTLVAKSF SQSPGSTLLMDAGTTLET  
 ADGITINNLVLDLSKETKKATLQATQASQTVTLSGSLSLVDPSGVYEDVSWNNPQVFSCLT LTADDPANI HITDLAA  
 DPLEKNPIHWGYQGNWALSQEDTATSKAATLTWTKTGYNPNPERRGTLVANTLWGSFVDVRSIQQLVATKVRQSQETR  
 GIWC EGISNFNFFKHDSTKINKGFRHISAGYVVGATTTLASDNLITA AFCQ LFGKDRDHFINKN RASAYAASLHLQHLATLS  
 SPSI LRLYLPGESEEQPVLFDAQISYIYSKNTMKTYYTQAPKGE SSWYNDGCALEASSLPH TALSHEGLFHAYFPFIKVE  
 ASYI HQDSFKERNTTLVRSFDGDLINVSVPI GITFERFSRNERASYEATVIYADV RKNPDCTTALLINNTSWKTTGT  
 NLSRQAGIGRAGIFYAFSPNLEVTSNLSMEIRGSSRSYNADLGGKFQF

Seq ID 72

MFEKFTNRAKOVIKLAKKEAQLRNHN YLGTEHILLGLLKLQGVAVNVRNLGIDFDTARQEVERLIGYGPEI QVYGDPA  
 LTGRVKKSFESANEEASLLEHNYVGTEHLLLGILHQSDSVALQVLENLHIDPREVRKEILKELETFNLQLPPSSSSSS  
 SRSNPSSSKSPLGHSLSGDKNEKLSALKAYGYDLTEMVRESKLD P VIGRS SEVERL LILCRRKNNPVLIGEAGVGKTA  
 IVEGLAQKIIILNEVPDALRKRLITL DLALMIAGTKYRGOFERIKA VMDEV RKHGNILLFIDE LHTIVGAGAAEGAIDA  
 SNILKPALARGEIQCIGATTIDEYRKHIEKDAALERRFQKIVVHPPSVDETIEILRGLKKYEEHHNVFITEEALKAAAT

LSDQVYHGRFLPDKAIDLLEAGARVRVNTMGQPTDLMKLEAEIENTKLAKEOAIGTQEYEKAAGLRDEEKKLRLRERLQSM  
KQEWEHNKEEHQPVDEEAVAQVSLQTGIPPSARLTERAESEKLLKLEDTLRRKVIGQNDAVTSICRAIRRSRTGIKDPNR  
PTGSFLFLGPGTVGKSLLAQQAIEMFGGEDALIQVDMSEYMEKFAATKMMGSPPGVGHEEGGLTEQVRRPVCVVLF  
DEIEKAHPDIMDLMLQILEQGRILTDSGRKVDFRHAIIMTSNLGADLIRKSGEIGFGLKSHMDYKVIQEKEHAMKKHL  
KPEFINRLDESVIFRPLEKESLSEIIHLEINKLDSRLKNYQMALNIPDSVISFLVTKGHSPEMGPRLRRVIEQYLEDPL  
AELLKESCRQEARKLRLATLVENRVAFEREEEQEAALPSPHLES

Seq ID 73

MGLQSRLQHCIEVSQNSNFDSQVKQFIYACQDKTLRQSVLKIFRYHPLLKIHDIAVARVYLLMALEEGEDLGLSFLNVQQY  
PSGAVELFSCGGFPWKGLPYPAEHAEGLLLQIAEFYEEQAYVSKMSHFQQLFDHQGSVFPSSLWSQENSRLKEKTT  
LSQSFLFQLGMQIHPEYSLEDPALGFWMQRTRSSSAFVAASGCQSSLGAYSSGDVGVIAYGPCSGDISDCYYFGCCGIAK  
EFVCQKSHQTTEISFLTSTGKPHPRNTGFSYLRDSYVHLPIRCKITISDKQYRVHAALAEATSAMTFSFCKGKNCQVVD  
GPRLRSCSDLSDSYKPGNDIMILGENDAINIVSASPMEIFALQGKEKFWNADFLINIPYKEEGVMLIFEKKVTSEKGRFF  
TKMN

Seq ID 74

MTKIAFSEKAKNFPVEALKWFEKNKRSVPWRDNPTPSWWSEVMQQTRAEEVVIDYFNQWMERFPTIESLAAKEEDV  
IKLWEGLGYYSRARHLLEGARMVMEEFHGKIPDDAISLAQIRGVGPYTVAAILAFAKRRAAAVDGNVLRVLSRIFIET  
SIDLESTRTWVSRIAQALLPHKSPEVIAEALIELGACICKVPOCHRCPVROACGAWRЕНKQFVL.PVRHARKKVIFLHRL  
VAIVLYDGSIVVEKRRPKEMMAGLYEFPYIEVEPEEGLQDIEGFTKMMELSPLEFLGNLKEQRHAFTNHKVHLCPII  
FKATSLPQFGELHLLSDIDHLFSSGHKKIKDALLIYLGDVRSRESIGV

Seq ID 75

MAVSGGGGVQOPSSDPGKWNPALQGEQAEGPSPLKESIFSETKQASSAAKQESLVRSGSTGMYATESQINKAKYRKAQDRS  
STSPKSCLKGTFSKMRASVQGFMGFGSRASRVSAKRADSSEGTSLLPTEDVALKKGNRISPENQFFLDASGMGGSS  
SDISQLSLEALKSSAFSGARSLSSSESSVASFGSFQKAIPEMSEEKVNAWTVALGGEVSSLLDPNVETSSLVRRA  
MATGNEGMIDLSDLGQEVSTAMTSRRAVEGKVKVSSDSPEANPTGIPNSNTLERAEEKAEKQESREQLSEDQOMMLARA  
MAGLLTGAAPEVLSNSVWGPSTVFPPPFSGLPTQRSGDKSKHKSPGIEKSTNHTNFSPLREGTVKSAEVKSLPHPE  
SMYRFPKDSIVSREEPEAVVKESTAKNPENNSQNFLPIAVESVFPKESGTGGALGSDAVSSSYHFLAQRGVSSLAPLPR  
ATDDYKEKLEAHKGPGGPPDPLIYQYRNVAVEPPIVLRSQPFGSSRLSVQGKPEAASVHDDGGGNSSGGFSGDQRGRGS  
SGQKASRQEKKGKKLSTDI

Seq ID 76

MKRWSWLKILGICLGSIVLGFLIFLPQLLSTESGKYLVFSLIHKESGLCSAELKISWFGRQTAIKLTGEAKDEV  
SAEKFELDGSSLRLLIYKKPKGITLGSWSLKINEPASIDHPSVSHLPGSLLTYLNDCKIISEHGFITMKTVGSSLSVS  
GFYLEKSSEKFMTKCVVSEDDQSGNIFIESVLSVDVSISAQFSSVPVAFFKIFIAFPFDHLLSYEDIINLSAEATHND  
GKISMATASGEQNQIQMQLQGHINKSTFYIVEGSSSFIELKPELASALCNQIIPLSTPITSQIATVSYAKIPLDITKW  
HJEITSQAQLPEVIAHPKDPNLALQRLDTKLGKIKTEKFSDIRYSSSTVLGGASPSHLNGLISIDNKKHLTKFRLQQAQL  
PHTYLRAIFFPQFVINPLDVAYYSLNTEGTYKNAHEADAILDNPLKLCMSGAWKNFLFKQGTYHFNKKWQEILS  
PHFSYAEARFSKAQITDTNLFFFPSGKITAIRENELLIAFKGSPNEPIKPETTSILIHQFCSLPLSLVSNHLPFHL  
KKLTFSFHTDGGKFVTKGNLQALIENPDYPDLNNTRLIPDLLLLSDESSTSPSKDLKIQGSGEIFSLPLDSITKTYGK  
QVRLSPYFGSSGDLNFVVNNPKDQNKLTLLSNFKSEALLGELKLVMDFSMKLSSGTQGTLQWEVSPERYASFFKNASC  
PTCILHRTANVRLDISKLCSCPEETKGLCLTLAAGGLEGSLEATPLIFYDNVSKETFIINDFKGSLRANNLDAKIEYDL  
KGSCCLAPQDSKTLAEFSLEGQVDHLPSPESREFKQTANWIHIPSSFLAGIIPMSPGLKAQISSLAGPRINVSIKNAFRF  
GEGPVDIMVDSENLQAQIPLILNEKSILLRENLTAHLSINEDVNKAFLQEFNPLLAGGAYSQYPVTLEIDKQNFYLPIRP  
YSFEEFRIQSATLDMGKISIANTGTMYALFQFLDITDQKQFVESWFTPPIFFSVQKGSITCKRXDALIDRRIRLALWGKTD  
IAHTRLFMTLGEDPEVIKYFHNTSLKTKNFFLIKIRGSISSPEVDWSSAYARIALLKSYSILGNPFSIADKLFLSSLGDS  
TPPPVTVPFFPWEKSNFDSIENK

Seq ID 77

MSSPVNNTPSAPNIPIPAPTTGPIPTTKPRSSFIEKVIIIVAKYILFAIAATSGALGTILGLSGALTGIGIALLVIFFVS  
MVLLGLLKDTSISGGEERRLREEVSRFTSENQRLTVITTTLETEVKDLKAADQTLTEIAFRNENGNLKTTAEDLEEQU  
SKLSEQLEALERINQLIQANAGDAQRISSELKKLISGWDSKVVEQINTSIQALKVLLQEWVQEAQTHVKAMQEQIQLAQ  
AEILGMHNQSTALQSVENLLVQDQALTRVVGELLESENKLSQACSLARQEIEKLAQHETSLQQRIDAMLAQEONLAEQV  
TALEKMKQEAQKAESEFIAVDRDTRFGRRETPTTVEGDESEQEEDEGGTPVSPQSSPVDRATGDQG

Seq ID 78

MYDPNLIEKKWQFWKEHRSFQANEDEDKVKYYVLDMPYPSGAGLHVGLIGYTATDIVARYKRARGFSVLHMGWDS  
FGLPAEQAIRTGTHPKVTTQKNTIANFKKQLSAMGFSYDEGREFATSDPDYYHWTQKLFFLYDQGLAYADMADVNYCPE  
LGTVLNNEEVENGFSIEGGYVVERKMLROWILKITAYADKLEGLDALLWPENVKQLOKNWIGKSEGALVTFHLTQEGSL  
EAFTTRLDLTLGVSFLVIAPEHPDLDIVSEEQRDEVTAYQESLRKSERDRRISSVKTGTGVFTGNYAKHPITGNLLPVW  
ISDYYVLGVTGVMGVPAHDERDREFAEMFSLPIHEVIDDNGVCIHSNYNDFCINGLNSQEAQKDYVINYLEMRSLGRAK  
TMYRLRDWLFSRQRYWGEPIPIIHFEDGTHRPLEDDELPLLPPNIDDYRPEGFGQGPLAKAQDWVHIYDEKTGRPGCRET  
YTMPQWAGSCWYIYLRFCDAHNSQLPWSEKEYESWMPVLDYIGGAEHAVLHLLYSRFWHRVFDAGLVSTPEPFKKLINQG

LVLASSYRIPGKGYVSIEDVREENGWTISTCGEIVEVRQEKMSKSCLNGVDPOVLIIEYGADALRMYAMFSGPLDKNKTWSNEGVGGCRFLNRFYDLVTSSVEQDIEDRDGLVLAHKLVFRITEHIEKMSLNTIPSSFMEFLNDFSKLPVYSKRALSMARVLLEPIAPHISEELWVILGNPPGIDQAAWPQIDESYLAQTVTFVVQVNGKLGRLEVAKEEVLSRSRVVAKYLENAQIRKEIVYPNKLVNFV

Seq ID 79

LEKIMFGENSRDIGVLSKEGLFDKLEIGIASDITIRDWKSCGEIKKPETINYRTFKPEKGLFCEKIFGPTKDWECCCCGKYKKIKHGIVCDRCGVETLSKVRERMAHIELAVPIVHIWFCKTPSRIGNVLMGTASDLERVIYYEEYVVIDPGKTDLTKKQLLNDAQYREVVEKGKDAFVAKMGGEAIYDLLKSEDLQSLLKDLKERLKRTKSQQARMKLAKRKTIIEGFVSSSNHPEWMVLKNIPVVPDDLRPLVPLDGGRFATSDLNDLYRRVINRNRLKAILRLKTPEVIVRNEKRLQEAVDALFDNGRHGHPVMGAGNRLPLKSLSEMLKGKNGRFRQNLLGKRVDSGRSVIIVGPELKFNCQGLPKEMALELFEPFIIKRLKDQGSVYTIRSAKKMIQRGAPEVWDVLEEIIKGHPVLLNRAPTLHRLGIQAFEPVILLEGKAIRIHLVCAAFNADFQGDQMAHVPLSVEAQLEAKVIMMAPDNIFLPSSGKPVAPIPSKDMTGLYLMADPTYFPEEHGGKTKIFKDEIEVRLRALNNNGFIDDVGDRRDETGRGIHIHEKIKVRIDQIETTPGRVLFNRIVPKELGFQNSMPSKRISELILQCYKKVGLEATVRFLDDLKDGFIQATKAAISMGLKDVRIPDIKSHILKDAYDKVAIVKKQYDDGIITEGERHSKTISIWIETSEQLSDALYVEISKOTRSKHNPLFLMIDSGARGNKSQQLKQLGALRGLMAKPGNATIESPITSNFREGLTVLEYSISSHGARKGLADTALKTADSGYLTRLVDAQDVIIITEKDCGTLNHIEISAIGQGSEELLPLKDRYIYDADLSELVGTYAIPSGAIISVEEGQRVETIKIRSTLTCESPRGVCACKYGLNLANGRLIGMGEAVGIIAAQSIGEPGTQLTMRTFHLLGGIAATSSTPEIITNSDGILVYMDLRVVLGQEGHNLVLNKKGALHUVGDEGRTLNNEYKLLSTKSIESLEVFPVLEGVKILVADGTPVSQGQRIADEVHNIPPIICDKPGFIKYEDLVEGISTEKVVKNTGLVELIVKQHRGELHPQIAIYDADLSELVGTYAIPSGAIISVEEGQRVDPGMILLARLPRGAIKTDITGGLPRVAELVEARKPEDAADIAKIDGVVDFKGIQKNKRILVVCDEMTGMEEEHLIPLTKHLIVQRGDSVIKGQQLTDGLVVPHEILEICGVRELOKYLVNEVQEVRQLQGVLDINDKHIEITIVRQMLQKVRITDPGDTLLFGEDVNKKFEYEEENRRTEDGGKPAQAVPVLGITKASLGTESFISAASFQDTTRVLTAACCSKTDYLLGFKENVIMGHMIPGGTGFETHKRIKQYLEKEQEDLVFDFVSETECVC

Seq ID 80

MDTQSSIGNEEWRIAGTSVVSQMGALGVFFLGTSPHLVRELTLPQEEVEHEIHYRYKALNRSKSDIVALEQEVGTGQQGLQEVSSILQAHLEIMKDPLTTEEVVNTIRKDRKNAEVFSSVMGKIEESLTAVRGMPSSVDRVQDIHDISNRVIGHLCCQHKSSLGESDQNLLIIFSEELTPSEVASANSAYIRGFVSLVGAATSHAIVSRAKSIPYLANISEELWNIAKRYNGKLVLIDGYRGELEFNPKPATLQSCYKKELSVVAHTSQRQLVRKSLHPIVSSHAGSDKDVEDLENFPQTISIGLFRSEFLAVILGRLPTLREQVDLYEKLARFPGDSPSVLRLFDGEDKPCPGIKNKKERSIRWLDDYSVILEDQQLQIAKASLQGSIKVLIPGVSDVSIIIEVKKKWEITQTRFPKGKVSGBTMIEFFPSAVWMIEEILPECDFLSIGTNLVQYTLGISRESALPKHNVTLPPAVIRMIHVLQAQKQNPVPSICGEAAGQSLTPLFIGLGVQELSVAMPVINRLRNHIALLELNSCLEITEALLQAKTCSEVEELLNRNNKITS

Seq ID 81

MRQEKDLSLGIVEPEDKLYGAQTMRSNFFSWGPELMPYEVIRALVWIKKCAAQANQDLGFLDSKHCDMIVAAADEILEGFEEHFPLKVWQGTGSQTSNMNVNEVIANLAIHHGVLGSKDPIHPNDHVNSQSSNDVFPTAMHIAAVISLKNKLIPA LDHMIIRVLDAKVEEFRHDVKIGRTHLMDAVPMTLGQEFSGYSSQLRHCLESIAFSLAHLYELAIGATAVGTGLNVPEGFVEKIJIHYLRKETDEPFIPASNYFSALSCHDALVDAHGSLATLACALTIAKIDLSFLGSGPRCGLGELFFPENEPGSSIMPKNPTQCEALQMVCACQVLGNNTQTVIIGGSRGNFELNVMKVIIYNPLQSVDLLSEGMRFAEFFVKGLKVNKARLQDNINNSMLVTALAPVLYDKCSKAALKAFHESISLKEACLALGYLSEKEFDRLVVPENMVGNH

Seq ID 82

MGLYDRDYIQDSRVQGTFASRVYGVMTAGLIVTSCVALGLYFSGLYRSLFSFWWWWCFCATLGVSFFINSKIQTLSVSAVGGLFLYSTLEGMFGTLLPVYAAQYGGGVIWAAGSAALVFGLAavyGAFTKSDLTICKSMTFALIGLLVTLVFAVVS MFVSMPLITYLLICYLGLVIFVGLTAADAQAIRRISSTIGDNNTLSYKLSLMFALKMVCNIVFWYLLQIFSSSGNRD

Seq ID 83

MVAKKTVRSYRSSFSHSVIVAILSAGIAFEAHLHSSELDLGVFNKQFEEHSAHVEEAQTSVLKGSDPVNPSPQKESEKVLYTQVPLTQGSSGESLDLADANFLEHFQHLFEETTVFGIDOKLVWSLDTRNFSQPTQEPDTSNAVSEKISSDTKENRKDLTEDEPSKKSGLKEVSSDLPKSPETAVAAISEDLEISENISARDPLQGLAFFYKNTSSQSISEKDSFQGIIFSGSGANSGLGFEENLKAPKSGAAVYSDRDIVFENLVKGLSFICESLEDGSAAGVNIVVTHCGVTLTDATGLDLEALRLVKDFSRGGAVFTARNHEVQNNLAGGILSVVGNKGAIIVVEKNSAEKSNGGAFACGSFVYSNNENTALWKENQALSGGAISSASDIDIQGNCSEAIEFSGNQSLIALGEHIGLTDFTVGGGALAAQGTLTLRNNAVVQCVKNTSKTHGGAILAGTVDLNETISEVAFKQNTAALTGGALSANDKVIJANNFGHILFEQNEVRNHGGAIYCGCRSNPKLEQKDSGENINIIGNSGAITFLKNKASVLEVMTQAEDYAGGGALWGNVLLDSNSGNIQFIGNIGGSTFWIGEYVGGGAILSTDRTISNNSGDVVFKGKNGQCLAQKYVAPOETAPVESDASSTNKDEKSLNACSHGDHYPPKTVEEEVPPSLLHEHPPVSTDIRGGAILAQHIFITDNTGNLRFSGNLGGGEESSTVGDLAIVGGAALLSTNEVNVCNSQNVVFSDNVTSNGCDSSGAILAKVDISANHSVEFVSNGSGKFGGAVCALNESVNITDNGSAVSFSKNRTRLGGAGVAAPQGSVTICGNQGNIAFKENFVFGSENQRSGGAIIANSSVNIQDNAGDILFVSNSTGSGYGGAIIVFGSILVASEGSNPRTLTITGNSGDILFAKNSTQAAISLSEKDSFGGAIYTNQLKIVKNAVNFSYGNRAPSGAGVQIADGGTVCLEAFGGDILFEGNINFDSFNIAHLCGNDSKIVELSAVQDKNIIIFQDAITYEENTIRGLPDKDVSPLSAPSILFNSKPQDDSAQHHEGTIRFSRGVSKIPQIAAIQEGTLLASQNAELWLAGLKQETGSSIVLSAGSILRIFDSQVDSSAPlPTENKEETLVSAGVQINMSSTPNKDKAVDTPVLADIISITVDLSSFVPEQDGTLPPLPEIIIIPKGTKLHSNA

IDLKIIDPTNVGYENHALLSSHKIDPLISLKTAEGMTGPTADASLSNIKIDVSLPSITPATYHTGVWSESKMEDGRLV  
 VGWQPTGYKLNPEKQGALVLNNLWSHYTDLRALKQEIAHHTIAQRMELDFSTNVWGSGLGVVEDCQNIGEFDGFKHHLT  
 GYALGLDTQLVEDFLIGGCFSQFVGKTESQSYYKAKNDVKSYSMAAYAGILAGPWLIKGAEVYGNINNDLTTDYGTLGIST  
 GSwigKGFIAGTSIDYRYIVNPRRFISAIVSTVVPFVEAFYVRIDLPEISEQGKEVRTFQKTRFENVAIPFGFALEHAYS  
 RGSSRAEVNSVQLAYVFVDRGPVSLITLKDAAYSWSYSYDIPCKAWKARLSNNTEWSYLSTYLAFTNYEWREDLIAYD  
 FNGGIRIF

Seq ID 84

MLIKLWRATYEGMYTFLVGALLKLRYRMQVEGWDTLNINPKQGCLFLANHVAEVDPITILEYLFWSRFHVRPMAVEYLFW  
 RVVQWFNLNSRSIPIPOLVPGKESKRSLERMNVCYEEASRALNRGESLLLYPSGRSLRTGKEEVNQYSAYVLLHRVMEC  
 NVLVRVSGLWGSAFSRYKQNSTPKLGPAFKEAFRALLRRGIFFMPKRFVKITLCQVDHLFLKQFPTKQDLNTFLASWFN  
 QGDDNLPIEVPA

Seq ID 85

MINKELDIGILGKIAGAIKQISIESIQKASSGHGPLPLGCAELAAYLYGYVLRQNPRDPHWINRDRFVLSAGHGSXLLYS  
 CLHLAGFDVSLEDLQEFRQLHSRTPGHPEYGETVGVEATTGPLGQGLNAVGMALSMKMLESRFPNGHEIFNGKJYCLA  
 GDGCFMEGVSHEVCSFAGLSNNLNVYDYNVNVLDGYLNEISVEDTKKRFEAYGWDVYEIDGYDFTHIHETFSSIKRG  
 QERPVLVIAHTTIGHGSPKEGTNKAHGSPLGVEGTHETKQFWHLPEEKFFVPPAVKNFFAKHQEDRKAQEOWLDEVRVW  
 SKQFPELHEEFVALTSKLPKNLESVQSVEMPDSIAGRAASNKLQIQLVQHIPYLIGGSADLSSSDGTWIANEKVIHTY  
 DFSGRNKIVGYREFGMATIMNGLAYSQVFRPFGGTFLVSDYMRNAIRALAASKLPVITYQFTHDHSIFVGEDGPTHQPVEQ  
 LMSLRAIPGLYVIRPADANEVRGAWIAGLKHTGPTVIVLSRQALPTLPAAHRPFKDGVGRGAYIVLKESGEKPDYTLFAT  
 GSEVSLALSVAKELEHLDKQVRVVSFPCWELFEAQDVYKQSIVGGLGIRVSTEAGSALGWYKYIGSEGLAAMDRCGY  
 SGASDDVSEECGFTTEQILQRILSQ

Seq ID 86

MSTMQNCPHFGVCGGCSFPQSNYSDSLKKKEELLHQLFAPLVPDSMIAPIIICPSPLRGRNMKMFSSFFQTYEGERKSLGF  
 SSTKPKKGIPVTTCLLHEQTMDILKLTREWDKHPPELMAYFPPKNKGSLCTLTVRTGSPQQNFMVILTTSGTPPEYRVNE  
 ACIDEWEKIELLSSSLNIASTYEEKVAARGISTYYETKLLYGAPSIQOKLSLPSDGSASFSLRPRSFFQOPQITOAAKII  
 ETAKEFINPEGSETL LDLYCGAGTIGIMLSPVVKNVIGVEIIPDAVASAQENIKANNKEDCVEVYLEDAKAFCKRNENCK  
 APDVIIIDPPRCGMQSKVLUKYIIRIGSPKIVYISCNPKTQFQECADLISGGYRIKKMQPIDQFPYSTHLENILLEREID  
 L

Seq ID 87

MTSGVSGSSSQDPTLAAQLAQSSQKAGNAQSGHDTKNVTQGAQAEVAAGGFEDLIQDASAQSTGKKEATSSTTKSSKGE  
 KSEKSGKSKSSTSVASASETATAQAVQGPKGRLRQNNYDPSLPTPEAQTINGIVLKKGMGLALLGLVMTLMANAGESW  
 KASFQSONQAIRSQVESAPAIGEAIKRQANHOASATEAQAKQSLISGIVNIVGFTVSVGAGIFSAAKGATSAKSF  
 ETGASAAGGAASKALTSAASSVQQTMASTAKAATTAAASSAGSAATKAAANLTDDMAAAASKMASDGASKASGGLFGEVLN  
 KPNSEKVSRCMVVKTOGARVASFAGNALSSSQMSQLMHGLTAAVEGLSAGQTGIEVAHQRLAGQAEAQAEVILQMS  
 SVYGQQAGQAGQLQEQAQMOSFNTALQTLQNIADSQTQTTSAIFN

Seq ID 88

MSIVRNSALPLPCLSRSSETFKKVRSHMKFMKVLTPTWYRKDLWVTAFLLTIAPIGSAHTLVDIAGEPRHAAQATGVSGDG  
 KIVIGMKVPDDPFAITVGFOYIDGHLQPLEAVRPQCSVPNGITPDGTIVVGTNYAIGMGSAVWKVWNGKSELPMPLPD  
 LDSVASAVSADGRVIGGNRNIINLGASVAVKWEDDVITQPLPSLDPAMNACVNGISSDGSIIVGTMVDVSWRNTAVQWIGDQ  
 LSVIGTLGGTTSVASAISTDGTIVVGGSENADSOHAYAYKNGVMSDIGTLGGFSLAHAVSSDGSVIVGVSTNSEHRYH  
 AFQYADGQMVDLGTLLGGPESYAQGVSGDGKVIVGRAQVPSGDWHAFLCFPQAPSAPVHGGSTVVTTSQNPRGMVDINATY  
 SSLKNSQQQLQRLLIQHSAKVESVSSGAPSFTSVKGAIKSQSPAVQNDVQKGTFLSYRSQVHGNVQNQQLLTGAFMDWKL  
 ASAPKCGFKVALHYGSQDALVERAALPYTEQGLGSSVLSFGGGVQGRYDFNLGETVVLQPFMGIQVLHLSREGYSEKNV  
 RFPVSYDSVAYSAATSFMGAHVFAISLSPKMSTAATLGVERDLNSHIDEFKGSVSAMGNFVLENSTSVLRFASLAMYYD  
 VRQQQLVTL SVMVNMQQPLTGTLSLVSQSSYNLSF

Seq ID 89

MFRCLFGIFLTLTCFSSGGVLYYLFCFSHDFSIGPKEKRSRVWIEEEEKFTDSVLHHLPSQHQHLHILCFQGFLLQKQQKF  
 SQAEKIFSKVYDEAQDGPFLKEEILGSRLLINSFFLEKTDVMETILCLLNQRCPNSPYYHLFKALVCYKOKLYREVIEQL  
 AYWQEEKTRALAPLLNISIEQLLTDFLLDYISAHSLLIEQKMFPEGRVILNRNINRLLKHECEWNAKTYDRIAILLSRSYF  
 LELVESKSADIYFDYYEMVLFYLLKIIYILEQCPYAEELLPEEELVSLIMEHVFILKDKLYPLIQLLEMWQKHVHPNSSL  
 VVQILVDRFSTHMEGAIRFCEALVFSGLEELHQIITTFFEEELSNKVQOIKTEEAKQCVALHILDPSISISEKLALSS  
 DTLQNIVGSDDEQHTKLRNYLDLWEAIOSYDIDRQQLVHHILVYGAIDLWKKGGNDEKALNLLQVLRLFTSYDIECESVVF  
 LFIKOAYKQALSSHAIRLKLKFISEANIPSIVISEAKANFLADAELYFAHEDYDKCYLYSMWLTKVAPSPQSYRLA  
 GLCLMENKRYDEALEFLCMSPNNSINDYKTQKALAFCQKHQSKDRAAS

Seq ID 90

MLGKEEEFTCKQKQCLSHFVTNLTSDFALKNLPEVVKGALFSKYSRSVGLRALLKEFLSNEEDGDVCDEAYDFETDV  
 QKAADFYQRVLDNFDDSVGELGGAHLLAMENVSILAACKVLEDARIGGSPLEKSTRYVYFDQKVRGEYLYYRDPILMTSAF

KDMFLGTCDFLFDTYSALIPQVRAYFEKLYPKDSKTPASAYATSLRAKVLDCTIRGLLPAATLTNLGFFGNGRFWQNLIHK  
 LQGHNLAEERRLGDESLTELMKVIPSFVSRRAEPHHHHHQAMMQYRALKEQLKGLAEQATFSEEMSSSPSVQLVYGDPG  
 IYKVAAGFLFPYSNRSLTDLIDYCKKMPHEDLVQILESVSARENRRHKS PRGLECVEFGFDILADFGAYRDLQRHRTLT  
 QERQLLSTHGYNFPEVELDTPMEKSYREAMERANETYNEIVQEPEEAQYVMVPMAYNIRWFFHVNARALQWICELRSQP  
 QGHQNYRTIATGLVREVVKFNPMYELFFKFVDYSDIDLGRLNQEMRKEPTT

Seq ID 91  
 RVMKAVVSHKSRTSSIHRQYSSYSLFYSLK

Seq ID 92  
 DGVNFGNLFQPCPYCRGKYPSPCTSTLSPSS

Seq ID 93  
 GLRRFCKRYSIVVSESGEPFCLLKKKKIFL

Seq ID 94  
 NFPICDRSSRFRGDCRDEDLCGRNRYEAFPDDKTEGHLCSCDTLALS KYCCLHS HGIWWIDSHASSPCCFCRIGGCFCNT  
 PYGFLRIFLRLLPTESKIEYQ

Seq ID 95  
 FLPVLPGLLLGPPLPQMSFRL

Seq ID 96  
 FFIKYSLNSGYGIQKYLQTRLSAIPEWHFSGTNSSKIKKLCEELSONCSYHRSTGILGLRSS

Seq ID 97  
 CSYSVVSLSLLQLLMLMKSEKKKS KFFNVSHFQKVRLS EDNMVQERFKE SRS LAIVKKRMLTKIPE

Seq ID 98  
 AQAFGSLLLRLML

Seq ID 99  
 ELLISYQRKTTSSAIGKKNFTTSSQC

Seq ID 100  
 EGREDLPSALRKGSPTGNSNFRSAAYCGSCC

Seq ID 101  
 RLRSTTNTSQSSPQWDCTHPIYLCDVPHGSGYV

Seq ID 102  
 APQARGDTKIRGYRNTRAC

Seq ID 103  
 GRLLKQCMSSLRKWLAILQLFLIAQEKLRTLQILLLPSTLVKS KQALYHVL SVLQNTIDS WKLKSLDPKQFSQILM  
 YFLTRILRN RGFIFSISI LSPNQEYIADLWALSF

Seq ID 104  
 STNPTVALASIFDAKTTKCP

Seq ID 105  
 TDILVKFIKNIFPPLWRGNVVPRSKNMTSIYTHANGNLIFQILNEVTQFFKVT P N

Seq ID 106  
 SSRCTQREIAGRRTVNTPKPKRCMGS

Seq ID 107  
 IDATQINLNASQVDIHIRNHSSSYWSARTCMRRRVSPSTWSFIYKGEVWSWGRFPVN AFQAPNIIPNRTCFCYFCSTTPCR  
 GCISTTRFFSIPRTVDYSSFKFHAEHQMIVISCGSRALFHCRFYASRP

Seq ID 108  
 ALLSRACVASITIPARKSASIAICLPGIASNRNRAATSATRSAPLVTTIN

Seq ID 109

NKVITGSRVGACESMETRKPPKCLKKVDRKAVNIETIKVTAEGKS

Seq ID 110

GISVMMMLSRCLSSFSSTCRRARTLIFPRPVYVERIPSEPOIIPPVGKSGPGMTCKISSTEACGFASRRSVASISSPKLCGGIFVAIPTAIPEEPLQRRFGNLEGKTTGSCFVSS

Seq ID 111

SRIISVMLSAPPCELHSDLIDPDLFENHRLNICISAEVGRVTHTFRGDSCNMSFNCVRGNVITIPRIIRIEIRSLTTSFSIITKCKRRISSRLRITNIIAYWSLRYVCLRIDIKTRECSSIKLRTFRRHITLHNKFTWRSRG

Seq ID 112

SDRNSFSISVSFSKYADFIAPLNWSLRTRRAFNVEAALIRFSHSSRVRPEVTVPPEIRNS

Seq ID 113

MPWIFYKLFNINIGVIKTGFGCTCGRKRSIEFLFFNNNTNSSPTSSNGFNNNRETYFFSYF

Seq ID 114

ISMSSIETPSSPTTSIRLPISEPFSRNCAAFFTAPPQPETFSSKICPTWFKYFDQEIKGSIEGYLRASARAFERPQNAPTTANVD

Seq ID 115

GDLEHYKHIHGPFSSKSSHGKRHKRHNLYLMFLQCRYKTLCDQES

Seq ID 116

RVSFNASPPITTSSRRDSKQEFCFFAVFRI

Seq ID 117

SIMPLAPQRSLGPATQYQLEEWPIQDTSISRDPKRLSSTNTSVSYRNASEIFSCNSLSRTKNIPILDPKCAVFTIIGKENVSIRF

Seq ID 118

PLGPAPITTQSNSWVIFSLTVIKISKRTPLHKCMHLIKKRTLCLF

Seq ID 119

GEQPFLFHPTSQQSLSLYHHYIGTLQSSFHHWKPLQKIAFPQKIFQDQQVHRLPTSQRGKTDLDPRFL

Seq ID 120

VTSKYASMRPSIPNPASHTRKIARAPTSRLTRFPYAGYISSKKYQGAPVSPQGRSEPSGNTMRFEESPGTHTRPPSPRTDSEINRSLSLPGIAVG